

KAMBUZUMA 1 HIGH SCHOOL

MATHEMATICS DEPARTMENT

ADVANCED LEVEL MATHEMATICS PAPER 1

MID-YEAR EXAMS JULY 2013

Additional materials:

- Answer paper
- Graph paper
- List of formulae

TIME: 3 Hours

INSTRUCTIONS TO CANDIDATES

- Write your name and class in the spaces provided on the answer paper/ answer booklet.
- There is no restriction on the number of questions which you may attempt.
- If a numerical answer cannot be given exactly, and the accuracy required is not specified in the question, then in the case of an angle it should be given to the nearest degree, and in other cases it should be given correct to 2 significant figures.

INFORMATION FOR CANDIDATES

The number of marks is given in brackets [] at the end of each question or part question.

The total number of marks for this paper is 120.

Within each section of the paper, questions are printed in the order of their mark allocations and candidates are advised, within each section, to attempt questions sequentially.

The use of an electronic calculator is expected, where appropriate.

You are reminded of the need for clear presentation in your answers

This question paper consists of 6 printed pages and 2 blank pages.

F32june 2013 Paper

Joacim Rocklöv



F32june 2013 Paper:

Macroeconomic Effects of Sovereign Restructuring in a Monetary Union Lorenzo Forni, Massimiliano Pisani, 2013-12-26 We assess the macroeconomic effects of a sovereign restructuring in a small economy belonging to a monetary union by simulating a dynamic general equilibrium model In line with the empirical evidence we make the following three key assumptions First sovereign debt is held by domestic agents and by agents in the rest of the monetary union Second after the restructuring the sovereign borrowing rate increases and its increase is fully transmitted to the borrowing rate paid by the domestic agents Third the government cannot discriminate between domestic and foreign agents when restructuring We show that the macroeconomic effects of the restructuring depend on a the share of sovereign bonds held by residents in the country as compared to that held by foreign residents b the increase in the spread paid by domestic agents and c its net foreign asset position at the moment of the restructuring Our results also suggest that the sovereign restructuring implies persistent reductions of output consumption and investment that can be large in particular if the share of public debt held domestically is large the private foreign debt is high and the spread paid by the government and the households does increase

The External Balance Assessment (EBA) Methodology Mr. Steven Phillips, Mr. Luis Catão, Mr. Luca Antonio Ricci, Mr. Rudolfs Bems, Ms. Mitali Das, Mr. Julian Di Giovanni, Ms. Filiz Unsal, Marola Castillo, Jungjin Lee, Jair Rodriguez, Mr. Mauricio Vargas, 2014-01-13 The External Balance Assessment EBA methodology has been developed by the IMF's Research Department as a successor to the CGER methodology for assessing current accounts and exchange rates in a multilaterally consistent manner Compared to other approaches EBA emphasizes distinguishing between the positive empirical analysis and the normative assessment of current accounts and exchange rates and highlights the roles of policies and policy distortions This paper provides a comprehensive description and discussion of the 2013 version 2.0 of the EBA methodology including areas for its further development

The Evolution of Current Account Deficits in the Euro Area Periphery and the Baltics Mr. Joong Kang, Mr. Jay C. Shambaugh, 2013-07-17 Explanations of the large current account deficits for the euro area periphery and the Baltics in the run up to the crisis revolve around two main factors deteriorating export performance or demand driven booms We add that there were important movements in transfers and net income balances While export performance remained relatively stable in most countries for some countries when transfers declined households and firms borrowed so as to maintain the same level of spending This was part of a persistent failure to adjust to trade deficits which along with rising net income payments led to growing current account deficits All of these factors played varying roles in the development of current account deficits across these countries

Capital Flows are Fickle Mr. John C. Bluedorn, Rupa Duttagupta, Mr. Jaime Guajardo, Petia Topalova, 2013-08-22 Has the unprecedented financial globalization of recent years changed the behavior of capital flows across countries Using a newly constructed database of gross and net capital flows since 1980 for a sample of nearly 150 countries this paper finds that private capital flows are typically volatile

for all countries advanced or emerging across all points in time This holds true across most types of flows including bank portfolio debt and equity flows Advanced economies enjoy a greater substitutability between types of inflows and complementarity between gross inflows and outflows than do emerging markets which reduces the volatility of their total net inflows despite higher volatility of the components Capital flows also exhibit low persistence across all economies and across most types of flows Inflows tend to rise temporarily when global financing conditions are relatively easy These findings suggest that fickle capital flows are an unavoidable fact of life to which policymakers across all countries need to continue to manage and adapt

Sovereign Debt Markets in Turbulent Times Fernando Broner,Aitor Erce,Alberto Martin,Jaume Ventura,2013-12-27 In 2007 countries in the Euro periphery were enjoying stable growth low deficits and low spreads Then the financial crisis erupted and pushed them into deep recessions raising their deficits and debt levels By 2010 they were facing severe debt problems Spreads increased and surprisingly so did the share of the debt held by domestic creditors Credit was reallocated from the private to the public sectors reducing investment and deepening the recessions even further To account for these facts we propose a simple model of sovereign risk in which debt can be traded in secondary markets The model has two key ingredients creditor discrimination and crowding out effects Creditor discrimination arises because in turbulent times sovereign debt offers a higher expected return to domestic creditors than to foreign ones This provides incentives for domestic purchases of debt Crowding out effects arise because private borrowing is limited by financial frictions This implies that domestic debt purchases displace productive investment The model shows that these purchases reduce growth and welfare and may lead to self fulfilling crises It also shows how crowding out effects can be transmitted to other countries in the Eurozone and how they may be addressed by policies at the European level

Diesel Emissions and Their Control, 2nd Edition W. Addy Majewski,Hannu Jääskeläinen,2023-12-20 Engineers applied scientists students and individuals working to reduceemissions and advance diesel engine technology will find the secondedition of Diesel Emissions and Their Control to be an indispensable reference Whether readers are at the outset of their learning journey orseeking to deepen their expertise this comprehensive reference bookcaters to a wide audience In this substantial update to the 2006 classic the authors have expandedthe coverage of the latest emission technologies With the industryevolving rapidly the book ensures that readers are well informed aboutthe most recent advances in commercial diesel engines providing acompetitive edge in their respective fields The second edition has alsostreamlined the content to focus on the most promising technologies This book is rooted in the wealth of information available on DieselNet com where the Technology Guide papers offer in depth insights Eachchapter includes links to relevant online materials granting readers accessto even more expertise and knowledge The second edition is organized into six parts providing a structuredjourney through every aspect of diesel engines and emissions control Part I A foundational exploration of the diesel engine combustion andessential subsystems Part II An in depth look at emission characterization health andenvironmental impacts testing methods and global regulations

Part III A comprehensive overview of diesel fuels covering petroleumdiesel alternative fuels and engine lubricants Part IV An exploration of engine efficiency and emission controltechnologies from exhaust gas recirculation to engine control Part V The latest developments in diesel exhaust aftertreatment encompassing catalyst technologies and particulate filters Part VI A historical journey through the evolution of dieselengine technology with a focus on heavy duty engines in the NorthAmerican market ISBN 9781468605693 ISBN 9781468605709 ISBN 9781468605716 DOI 10 4271 9781468605709 Recent Advances in Psychiatry from Psycho-Neuro-Immunology Research: Autoimmunencephalitis, Autoimmune-Encephalopathy, Mild Encephalitis Karl Bechter,David Brown,Souhel Najjar,2019-08-12 Growing evidence derived from cerebrospinal fluid CSF neuropathological imaging genetic and epidemiological studies link neuroinflammation and immune dysregulation to a subset of individuals with a variety of severe mental disorders SMDs including affective and non affective psychotic disorders Further the recent discoveries of neuronal surface antibodies NSAs in autoimmune encephalitis AE presenting with diverse neuropsychiatric disorders such as psychosis and cognitive decline among many others provides further support to the notion that CNS autoimmunity and neuroinflammation can contribute to the neurobiology of psychiatric disturbances Further these immune mechanisms may contribute to a subset of patients currently diagnosed as having treatment resistant SMDs such as schizophrenia and major depressive disorder Additionally mounting data indicate that various infections can serve as an immunological trigger of aberrant immune responses presumably by causing release of excess neural antigen thereby giving rise to NSAs or aberrant immune cellular responses to give rise to primary or secondary psychiatric disorders such as schizophrenia and those associated with AE respectively Collectively these findings support the mild encephalitis hypothesis of SMD The significant overlap among AE associated psychosis systemic autoimmune disorder associated psychosis and psychotic disorders associated with pathological processes involving inflammation and immune dysregulation has also prompted some authors to adopt the term autoimmune psychosis AP This term reflects that this psychosis subtype is mechanistically linked to complex neuroimmune and inflammatory signalling abnormalities that can be responsive to early immunomodulatory treatment It also suggests that a subset of AP might represent an incomplete or forme fruste subtype of AE presenting with dominant or pure psychiatric symptoms mimicking primary psychiatric illnesses Because data indicate that delayed diagnosis and treatment may lead to permanent sequelae early recognition of AP utilizing neurodiagnostic workup e g CSF analysis neuroimaging and EEG and its early treatment with appropriate immunotherapy are paramount to a meaningful recovery This eBook will provide an overview of the current knowledge and research areas from epidemiology risk factors and diagnosis to the management of these conditions in this rapidly emerging field helping to bridge the gaps in knowledge that currently exist in the disciplines of Psychiatry Neurology and Neuroimmunology **Global Liquidity Transmission to Emerging Market Economies, and Their Policy Responses** Woon Gyu Choi,Taesu Kang,Geun-Young Kim,Byongju Lee,2017-10-30 This paper distills and identifies global liquidity GL momenta from the macro financial data of

advanced economies through a factor model with sign restrictions as policy driven market driven and risk averseness factors Using a panel factor augmented VAR we investigate responses of emerging market economies EMEs to GL shocks A policy driven liquidity increase boosts growth in EMEs elevating stock prices and currency values while a risk averseness rise has an opposite effect A market driven GL expansion boosts stock markets and lowers funding costs promoting competitiveness and current account Inflation targeting EMEs fare better than EMEs under alternative regimes with respect to macrofinancial volatility

Review of the Research Program of the U.S. DRIVE Partnership National Academies of Sciences, Engineering, and Medicine, Division on Engineering and Physical Sciences, Board on Energy and Environmental Systems, Committee on the Review of the Research Program of the U.S. DRIVE Partnership, Phase 5, 2017-07-28

Review of the Research Program of the U S DRIVE Partnership Fifth Report follows on four previous reviews of the FreedomCAR and Fuel Partnership which was the predecessor of the U S DRIVE Partnership The U S DRIVE Driving Research and Innovation for Vehicle Efficiency and Energy Sustainability vision according to the charter of the Partnership is this American consumers have a broad range of affordable personal transportation choices that reduce petroleum consumption and significantly reduce harmful emissions from the transportation sector Its mission is as follows accelerate the development of pre competitive and innovative technologies to enable a full range of efficient and clean advanced light duty vehicles LDVs as well as related energy infrastructure The Partnership focuses on precompetitive research and development R D that can help to accelerate the emergence of advanced technologies to be commercialization feasible The guidance for the work of the U S DRIVE Partnership as well as the priority setting and targets for needed research are provided by joint industry government technical teams This structure has been demonstrated to be an effective means of identifying high priority long term precompetitive research needs for each technology with which the Partnership is involved Technical areas in which research and development as well as technology validation programs have been pursued include the following internal combustion engines ICEs potentially operating on conventional and various alternative fuels automotive fuel cell power systems hydrogen storage systems especially onboard vehicles batteries and other forms of electrochemical energy storage electric propulsion systems hydrogen production and delivery and materials leading to vehicle weight reductions

The Traffic Bulletin

,1924 *Spatially Resolved Operando Measurements in Heterogeneous Catalytic Reactors* ,2017-11-13

Spatially Resolved Operando Measurements in Heterogeneous Catalytic Reactors Volume 50 presents the latest on these essential components in the continuing search for better utilization of raw materials and energy that reduces impact on the environment This latest release includes valuable chapters that present tactics on Understanding the performance of automotive catalysts via spatial resolution of reactions inside honeycomb monoliths Operando spectroscopy in catalytic reactors Spatio temporal phenomena in monolithic reactors measured by combined spatially resolved mass spectrometry and optical frequency domain reflectometry and In situ spatially resolved techniques for the investigation of packed bed catalytic reactors Current status

and future outlook This series presents the latest reviews of the state of the art of in heterogeneous catalytic reactors and processes Contains reviews by leading authorities in their respective areas Presents up to date reviews of the latest techniques in the modeling of catalytic processes Includes a broad mix of US and European authors as well as academic industrial and research institute perspectives Provides discussions on the connections between computation and experimental methods

Private Equity at Work Eileen Appelbaum, Rosemary Batt, 2014-03-31 Private equity firms have long been at the center of public debates on the impact of the financial sector on Main Street companies Are these firms financial innovators that save failing businesses or financial predators that bankrupt otherwise healthy companies and destroy jobs The first comprehensive examination of this topic Private Equity at Work provides a detailed yet accessible guide to this controversial business model Economist Eileen Appelbaum and Professor Rosemary Batt carefully evaluate the evidence including original case studies and interviews legal documents bankruptcy proceedings media coverage and existing academic scholarship to demonstrate the effects of private equity on American businesses and workers They document that while private equity firms have had positive effects on the operations and growth of small and mid sized companies and in turning around failing companies the interventions of private equity more often than not lead to significant negative consequences for many businesses and workers Prior research on private equity has focused almost exclusively on the financial performance of private equity funds and the returns to their investors Private Equity at Work provides a new roadmap to the largely hidden internal operations of these firms showing how their business strategies disproportionately benefit the partners in private equity firms at the expense of other stakeholders and taxpayers In the 1980s leveraged buyouts by private equity firms saw high returns and were widely considered the solution to corporate wastefulness and mismanagement And since 2000 nearly 11 500 companies representing almost 8 million employees have been purchased by private equity firms As their role in the economy has increased they have come under fire from labor unions and community advocates who argue that the proliferation of leveraged buyouts destroys jobs causes wages to stagnate saddles otherwise healthy companies with debt and leads to subsidies from taxpayers Appelbaum and Batt show that private equity firms financial strategies are designed to extract maximum value from the companies they buy and sell often to the detriment of those companies and their employees and suppliers Their risky decisions include buying companies and extracting dividends by loading them with high levels of debt and selling assets These actions often lead to financial distress and a disproportionate focus on cost cutting outsourcing and wage and benefit losses for workers especially if they are unionized Because the law views private equity firms as investors rather than employers private equity owners are not held accountable for their actions in ways that public corporations are And their actions are not transparent because private equity owned companies are not regulated by the Securities and Exchange Commission Thus any debts or costs of bankruptcy incurred fall on businesses owned by private equity and their workers not the private equity firms that govern them For employees this

often means loss of jobs health and pension benefits and retirement income Appelbaum and Batt conclude with a set of policy recommendations intended to curb the negative effects of private equity while preserving its constructive role in the economy These include policies to improve transparency and accountability as well as changes that would reduce the excessive use of financial engineering strategies by firms A groundbreaking analysis of a hotly contested business model Private Equity at Work provides an unprecedented analysis of the little understood inner workings of private equity and of the effects of leveraged buyouts on American companies and workers This important new work will be a valuable resource for scholars policymakers and the informed public alike Prentice-Hall ... Federal Tax Service Cumulative ,1932 *Pierre Bourdieu in Studies of Organization and Management* Sarah Robinson,Jette Ernst,Kristian Larsen,Ole Jacob Thomassen,2021-10-01 There is increasing academic interest in how Pierre Bourdieu s sociology can be applied to management and organization studies MOS In a context of increasing complexity faced by organizations and those who work in them due to globalization neoliberalism austerity financial crisis ecological issues populism and developing technologies there is untapped potential to use Bourdieu s theoretical inventions to arrive at greater understandings of how change transition and crisis shape work organizational life as well as relations between different organizational and sectorial fields This book aims to take a specific focus on the relational nature of Bourdieu s work and its relevance for contemporary organizations It provides empirically grounded examples that showcase the explanatory strength of Bourdieu s intellectual concepts such as field habitus capital hexis hysteresis symbolic power symbolic violence doxa illusio as applied to the current challenges within MOS Such challenges include issues resulting from globalization neoliberalism financial crisis ecological crisis populism and developing technologies to name but a few and added to those a global pandemic The twelve chapters presented in this book study a great variety and range of organizational phenomena that are organized into three thematic sections Neoliberalism fields and hysteresis Global and national movements as sites for competition and symbolic domination and the The emergence and transformation of professional fields The chapters show a concern with the challenges and opportunities such developments offer to MOS scholars and to managers and employees in public and private sector organizations It will be of interest to researchers academics and students in the fields of organizational studies critical management studies human resource management and sociology *Geotechnical Aspects of Underground Construction in Soft Ground* Klaas Jan Bakker,Adam Bezuijen,Wout Broere,E.A. Kwast,2013-05-23 A valuable source of reference on the current practices of analysis design and construction of tunnels and underground structures in soft ground This collection of reviewed papers covers a wide range of tunnelling practice from deep excavations in Singapore to the construction of a new metro line in Barcelona The international scope of the contributors makes this a truly comprehensive collection of work on the geotechnical aspects of soft ground excavation **Empirical Research at a Distance: New Methods for Developmental Science** Dima Amso,Rhodri Cusack,Lisa Oakes,Sho Tsuji,Natasha Kirkham,2022-06-15 *Progress in*

Chemical Toxicology Abraham Stolman, 2013-10-22 Progress in Chemical Toxicology Volume 1 covers the developments in toxicology including the usefulness of the developed techniques and methods with necessary modifications for toxicological studies The book describes the isolation and separation techniques for the identification of poisons the application of gas chromatograph to toxicology and the pharmacological and toxicological effects aliphatic alcohols The text also discusses the isolation purification identification and the toxicology of acidic and neutral poisons ataraxics and nonbarbiturate sedatives The determination of antiarthritics antihistamines and thymoleptics the physicochemical properties for the identification of narcotics and related bases and the toxicity of air pollutants are also considered The book further tackles the analytical methods for air pollutants the occurrence symptoms and treatment of mushroom poisoning and the toxic components of poisonous seeds and fruits poisonous seeds and fruits Toxicologists chemists and scientists in forensic science laboratories will find the text invaluable

Social Programmes, Poverty Eradication and Labour Inclusion Laís Wendel

Abramo, Simone Cecchini, Beatriz Morales, 2019 Diverse social programmes including conditional cash transfer programmes labour and production inclusion programmes and social pensions are being implemented in Latin American and Caribbean countries with the aim of ending poverty and reducing inequalities throughout the life cycle This book offers an up to date analysis of these programmes and the way they relate to labour inclusion and analyses ongoing debates regarding the possible incentives and disincentives they create in terms of the labour supply formalization and child labour among the target population Considering that poverty is a structural problem of highly unequal societies the thesis that poverty is due to a lack of effort on the part of the poor is argued to be an expression of the strong prejudice against those living in poverty the great majority of whom work or are actively seeking employment but are hampered by the large decent work deficits existing in the region From an integrated and rights based perspective public policies should simultaneously address the twofold challenge of social and labour inclusion in order to achieve basic thresholds of well being by ensuring income universal access to good quality social services and opportunities for decent work

Конец банковского дела. Деньги и кредит в эпоху цифровой революции Джонатан Макмиллан, 2019-01-22 2007 2008 Energy Theorems and Structural Analysis J. H. Argyris, 2013-12-14

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