



Centre for Philosophy  
of Natural and Social Science



THE LONDON SCHOOL  
OF ECONOMICS AND  
POLITICAL SCIENCE ■

## **Voting Power in Practice Symposium**

### ***Voting Power in Social/Political Institutions: Typology, Measurement, Applications***

**Sponsored by The Leverhulme Trust**

Centre for Philosophy of Natural and Social Science (CPNSS)  
London School of Economics  
20 – 22 March 2011

(VPP Co-Directors: Rudolf Fara, Dan Felsenthal, Dennis Leech, Moshé Machover, Maurice Salles)

## **PROGRAMME**

### **Sunday 20 March**

**15:00–17:00** Registration in CPNSS (2<sup>nd</sup> Floor, Lakatos Bldg, Portugal Street (opposite George IV pub), London WC2A 2AE)

**17:00–17:15** Chair's Opening Remarks  
Rudolf Fara (LSE)

**17:15–18:00** Keynote Address  
Manfred J Holler (University of Hamburg) *Looking for monotonicity*

**18:00–18:30** Opening Session  
Pukelsheim, Friedrich (University of Augsburg)  
*A probabilistic 're-view' on F&M's Measurement of Voting Power*

**18:30–19:00** Discussion

**20:00 Dinner**

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## **Monday 21 March**

### **Voting Power Measurement: Extensions and Developments**

Chair: Maurice Salles (University of Caen)

**9:00–9:30**

Życzkowski, Karol (Jagiellonian University, Kraków)

*Square root voting system, optimal threshold and  $\pi$*

**9:30–10:00**

Winnicka, Justyna (Warsaw School of Economics)

*Shapley index for games with  $r$  alternatives with a priori unions*

**10:00–10:30**

Dennis Leach (University of Warwick) *Asymptotic behaviour of power indices*

### **10:30–11:00 Coffee Break**

**11:00–11:30**

Kirsch, Werner

*The fate of the square root law for correlated voting*

**11:30–12:00**

Freixas, Josep (Polytechnic University of Catalonia)

*Ordinal equivalence of power indices*

**12:00–12:30**

Ekes, Maria (Warsaw School of Economics) *Banzhaf and Shapley indices in games with a coalition structure - a special case study*

### **12:30–14:00 Lunch**

### **Voting Power Measurement: Probabilistic Approaches**

Chair: Dennis Leech (University of Warwick)

**14:00–14:30**

Koriyama, Yukio (École Polytechnique, Paris)

*Optimal Apportionment*

**14:30–15:00**

Kaniovski, Serguei (Austrian Institute of Economic Research [WIFO])

*Theorems for Exchangeable Binary Random Variables with Applications*

**15:00–15:30**

Das, Sreejith (Birkbeck College, London) *An Analysis of the Intrinsic*

*Differences Between the Commonly Applied Voting Power Techniques*

### **15:30–16:00 Coffee Break**

**16:00–16:30**

Beisbart, Claus (University of Dortmund) *Measurements of voting power and probability*

### **Reply to Papers and Discussion**

Chair: Dennis Leech

**16:30–17:00**

Dan Felsenthal (LSE and University of Haifa) and Moshé Machover (LSE and King's College London)

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## **Tuesday 22 March**

### **Voting Power: Applications and Experiments**

Chair: Maurice Salles (University of Caen)

**9:00–9:30**

Merlin, Vincent (University of Caen)

*Fair apportionment in the Italian Senate: Which reform should be implemented?*

**9:30–10:00**

Aleskerov, Fuad (National Research University Higher School of Economics, Moscow), *Power Distribution in the Weimar Reichstag in 1919-1933*

### **Voting Power Measurement: Deviations from Traditions**

Chair: Maurice Salles

**10:00–10:30**

Napel, Stefan (University of Bayreuth)

*Strategic vs Non-strategic Approaches to Power in Voting Bodies*

## **10:30–11:00 Coffee Break**

**11:00–11:30**

Miller, Nicholas (University of Maryland, Baltimore County)

*A priori voting power when one vote counts in two ways with application to variants of the US electoral college*

**11:30–12:00**

Maaser, Nicola (University of Bayreuth)

*Designing decision rules in two-tier voting systems*

### **Voting Power Measurement: Alternative Points of View**

Chair: Rudolf Fara (LSE)

**12:00–12:30**

Steffen, Frank (University of Liverpool)

*On the measurement of success and satisfaction*

## **12:30–14:00 Lunch**

**14:00–14:30**

Schmidtchen, Dieter (University of Saarland)

*On the possibility of a preference-based power index – The strategic power index revisited*

**14:30–15:00**

Nurmi, Hannu (University of Turku) *The keys may not be under the street lamp: aspects of power overlooked by power indices*

**15:00–15:30**

Montero, Maria (University of Nottingham)  
*An experimental market for votes*

**15:30–16:00 Coffee Break**

**16:00–16:30**

Holler, Manfred (University of Hamburg)  
*Pathology or revelation? – The Public Good Index*

**Reply to Papers and Discussion**

Chair: Rudolf Fara

**16:30–17:00**

Moshé Machover (LSE and King's College London) and Dan Felsenthal (LSE and University of Haifa)

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