

Cérémonie d'ouverture des premiers Jeju Olympiques

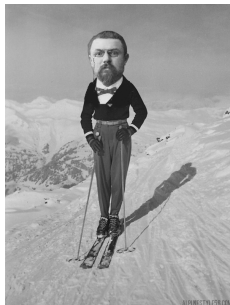


Organizers : **Hyeonbae Kang**, Habib Ammari, Eric Bonnetier, Mikyoung Lim, Graeme Milton, Mihai Putinar

Some history : 1. the Antiquity

1877 : *Untersuchungen über das logarithmische und Newton'sche Potential* by C. Neumann

1895 : *La méthode de Neumann et le problème de Dirichlet* by R. Poincaré



Some history : 2. The modern times revival

Layer potentials make a spectacular come back in the following hot topics

- boundary element methods in numerical analysis
- stress concentration in composites
- light concentration and localization in optics, metamaterials
- inverse problems and imaging : cloaking, superlensing

2007 : *On Poincaré's variational problem in potential theory* by D. Khavinson, M. Putinar and H.S. Shapiro

2015 : First workshop on "Spectral theory of the Neumann Poincaré operator and applications" organized by H. Kang in Seoul



2018 : the Jeju Olympics

International Workshop
The Neumann-Poincaré Operator, Plasmonics, and Field Concentrations

Feb. 8-10, 2018, Ramada Jeju Hamdeok Hotel, Jeju, S. Korea

Invited speakers

Introduction

Kazunori Ando (Ehime)	Yoshihisa Miyanishi (Osaka)
Eric Bonnetier (Grenoble)	Victor Nistor (Lorraine)
Charles Dapogny (Grenoble)	Karl-Mikael Perfekt (Reading)
Brian Fitzpatrick (ETH)	Mihai Putinar (UC-Santa Barbara)
Johan Helsing (Lund)	Faouzi Triki (Grenoble)
Haigang Li (Beijing Normal)	Sanghyeon Yu (ETH)
Mikyoung Lim (KAIST)	KiHyun Yun (Hufs)
Hongyu Liu (HK Baptist)	Hai Zhang (HKUST)
Graeme Milton (Utah)	

Organizers

Habib Ammar	Mikyoung Lim
Eric Bonnetier	Graeme Milton
Hyeonbae Kang (Chair)	Mihai Putinar

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2. An anonymous sponsor



The Olympic chart

- These are **doping-free games** : No illegal substances allowed



- There will be no medals



- **Just the olympic spirit :**

The important thing in life is not the triumph but the struggle
the essential thing is not to have conquered but to have fought well

LA MÉTHODE DE NEUMANN ET LE PROBLÈME DE DIRICHLET

PAR

H. POINCARÉ

À PARIS.

Introduction.

§ 1. *Simple et double couche.*

Le problème de DIRICHLET consiste à trouver une fonction V continue dans l'intérieur d'un domaine Ω borné, et qui satisfait de plus à l'équation de LAPLACE

$$\Delta V = \frac{d^2V}{dx^2} + \frac{d^2V}{dy^2} + \frac{d^2V}{dz^2} = 0$$

et qui sur la frontière de ce domaine prenne des valeurs données à l'avance.

Si le domaine s'étend à l'infini, cette fonction V devra de plus s'annuler à l'infini.

