

# CONSIGLIO NAZIONALE DELLE RICERCHE

## ACCADEMIA NAZIONALE DEI LINCEI

Seminario internazionale

### HARMONIC ANALYSIS

### ON COMPLEX HOMOGENEOUS DOMAINS AND LIE GROUPS

17 - 19 MAGGIO 2001

#### PROGRAMMA

#### Giovedì 17 maggio

- 9.15 Indirizzi di saluto
- 9.30 Hans M. REIMANN: "Equivariant differential operators on boundaries of symmetric spaces"
  - 10.25 Intervallo
- 10.45 Aline BONAMI: "Littlewood-Paley theory decompositions related to symmetric cones and Bergman spaces on associated tube domains"
- 11.40 Harald UPMEIER: "Quantization of symmetric domains and non-commutative Hardy spaces"
  
- 14.30 Ewa DAMEK: "Hua-Johnson-Korányi system on symmetric Siegel domains of type two"
- 15.25 Jean-Louis CLERC: "A triple ratio on the Silov boundary of a bounded symmetric domain"
  - 16.20 Intervallo

#### Comunicazioni

- 16.40 Angela PASQUALE: "A unified approach to a spherical transform theory"
- 17.10 Piotr GRACZYK: "The product formula for the spherical functions on symmetric spaces of non-compact type"
- 17.40 Gustavo GARRIGÓS: "Generalized Hardy spaces on tube domains over cones"

#### Venerdì 18 maggio

- 9.30 Elias M. STEIN: "The discrete analogue of the spherical maximal theorem"
  - 10.25 Intervallo
- 10.45 Wilhelm KAUP: "Bounded symmetric domains and derived geometric structures"
- 11.40 Alexander NAGEL: "The heat equation for the Kohn-Laplacian in  $\mathbb{C}^n$ "
  
- 14.30 Michael COWLING: "Contact and conformal maps on Iwasawa N groups"

## Comunicazioni

- 15.25 Marco PELOSO: "Analysis of Kohn Laplacians on quadratic CR manifolds"
- 15.55 Annamaria MONTANARI: "Regularity for solutions of the Levi Monge-Ampère equation"
  - 16.25 Intervallo
- 16.45 Filippo DE MARI: "Polynomial vector fields on nilpotent Lie groups"
- 17.15 Dmitri ZAITSEV: "Holomorphic hulls of wedges and applications to the reflection principle"
- 17.45 Paolo CIATTI: " $L^p$ -boundedness of Bergman projections on polyhedral cones"

## Sabato 19 maggio

- 9.30 Jacques FARAUT: "A Paley-Wiener theorem for bounded symmetric domains"
  - 10.25 Intervallo
- 10.45 Detlef MÜLLER: "Sub-Laplacians of holomorphic  $L^p$ -type on exponential Lie groups"
- 11.40 Adam KORÁNYI: "An elementary approach to compact and non-compact symmetric spaces"

Il Seminario è organizzato in collaborazione con il TMR Network "Harmonic Analysis" dell'Unione Europea

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