

# String theory group at the University of Milan

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Università degli Studi di Milano

1.–5.10.07 / RTN workshop, Valencia

# Outline

Who pull the strings at Milano 1

Resources

Research activities

Publications since October 2006

Work in progress: wrapping interactions in  $\mathcal{N} = 4$  SYM

# Who pull the strings at Milano 1

staff: Dietmar Klemm  
Alberto Santambrogio  
Daniela Zanon

postdocs: Stephane Detournay  
Rodrigo Olea  
Christoph Sieg

PhD students: Frederico Elmetti  
Francesco Fiamberti  
Diego Mansi  
Andrea Mauri  
Giovanni Talgliabue  
Emanuele Zorzan

# Resources

University of Milan



Physics Department



Ist. Naz. di Fisica Nucleare



MIUR Cofinanced project



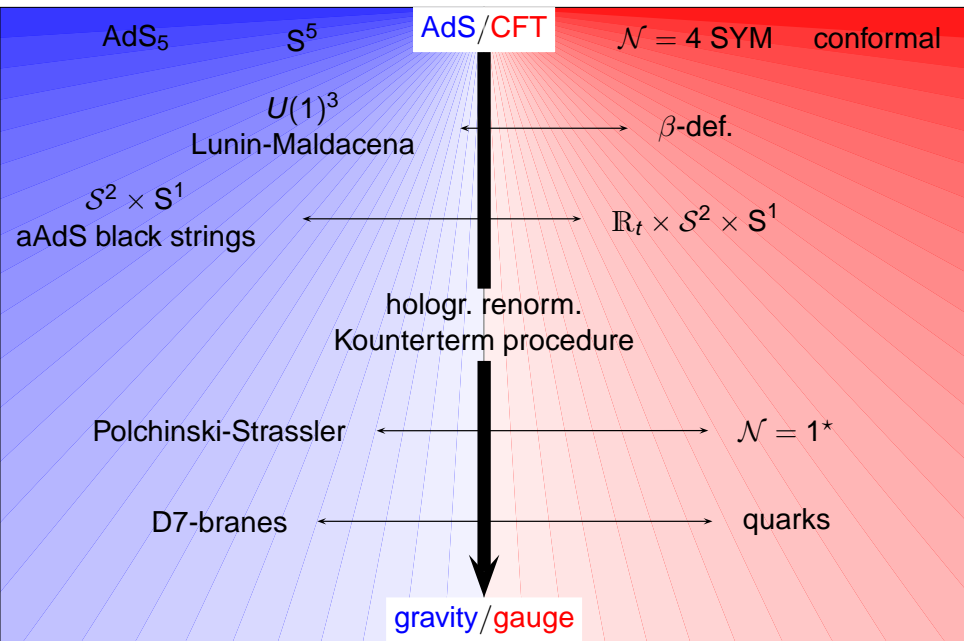
RTN



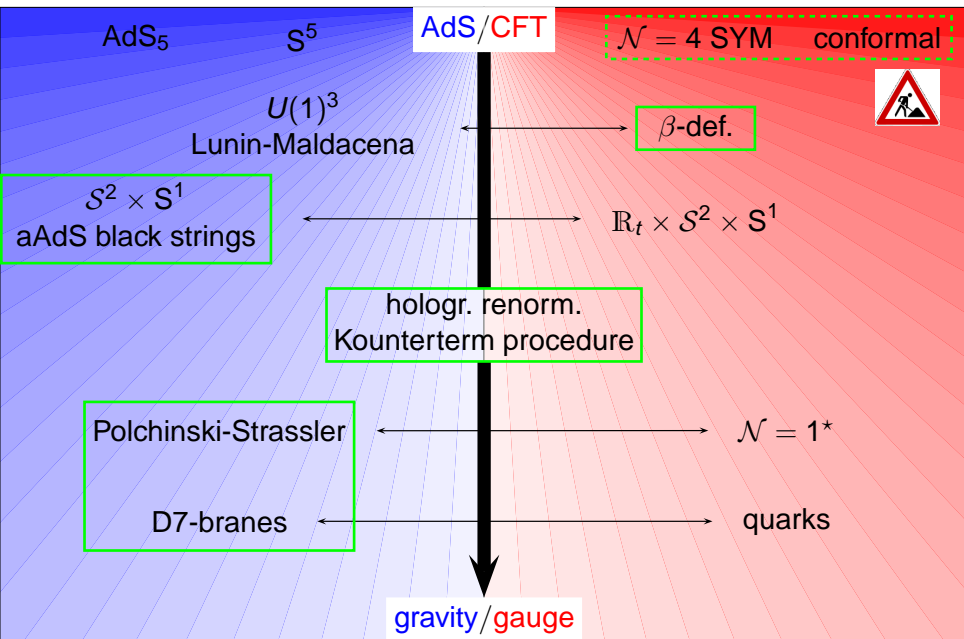
# Research activities

- ▶ Deformations of the  $\mathcal{N} = 4$  super Yang-Mills theory and AdS/CFT correspondence
- ▶ Integrability in  $\mathcal{N} = 4$  super Yang-Mills
- ▶ Spinorial geometry and classification of supergravity solutions
- ▶ Black hole solutions in string theory
- ▶ An alternative regularization scheme for AdS gravity
- ▶ String theory and noncommutative geometry

# Work in gravity/gauge correspondences



# Work in gravity/gauge correspondences



# Publications since October 2006 (no proceedings)

journal

## $\beta$ -deformed $\mathcal{N} = 4$ SYM

Elmetti, Mauri, Penati, Santambrogio, Zanon: 0705.1483

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## (classification of) supersymmetric solutions

Caldarelli, Klemm, Zorzan: 0610126

CQG

Cacciatori, Caldarelli, Klemm, Mansi, Roest: 0704.0247

JHEP

## aAdS<sub>5</sub>/CFT<sub>4</sub>

Bernamonti, Caldarelli, Klemm, Olea, Sieg, Zorzan: 0708.2402

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## holographic renormalization, Kounterterms

Olea: 0610230

JHEP

Miskovic, Olea: 0706.4460

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Kofinas, Olea: 0708.0782

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## gravity<sub>3</sub>/CFT<sub>2</sub>

Compere, Detournay: 0701039

JHEP

Klemm, Tagliabue: 0705.3320

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## holographic flavour in Polchinski-Strassler/quarks in $\mathcal{N} = 1^*$

Apreda, Erdmenger, Lüst, Sieg: 0610276

JHEP

Sieg: 0704.3544

JHEP



