

GSS – Pi 2020

Coord. Naz.: Anna CERESOLE (INFN, Torino)

Coord. Pisa: A. SAGNOTTI (Scuola Normale)

Italian Nodes

Genova, Lecce, Milano, Milano Bicocca, Padova, Pisa, Torino

Members of the Pisa Node

- **Staff members**

- Augusto Sagnotti (Full Professor)
- Karapet Mkrtchyan (RTDA)

- **Other participants**

- Sergio Ferrara (Senior associate of LNF)
- Dario Francia (Centro Fermi, Roma Tre)
- Ehsan Hatefi (Post Doc, will stay until the Fall of 2021)
- Yoshiyuki Tatsuta (PRIN Postdoc, will begin in the fall of 2020)
- Kirill Zatrimeylov (PhD student, will stay until the fall of 2021)

Research Program

- **Supersymmetry breaking by fields and branes:**

Non-linear realizations of supersymmetry and their microscopic origin in String Theory, in “brane supersymmetry breaking”. Supersymmetry Breaking in Supergravity and String Theory, with stability issues in compactifications and applications to Early-Universe Cosmology.

- **Higher Spins:**

Lagrangian form for 3D higher-spin theories and covariant action principles for chiral p-form fields