



## Advanced Non-radiating Architectures Scattering Tenuously And Sustaining Invisible Anapoles (ANASTASIA)

**Open seminar** addressed to research staff and to PhD students

Free admission

Date: Wednesday, November 8, 2017  
Time: 14:00-18:00  
Venue: Room 607

### Program/Speakers:

- |             |   |
|-------------|---|
| 14:00-14:15 | Alexey Basharin (NUST MISiS) – Welcome, presentations   |
| 14:15-14:30 | Ladislau Matekovits (Polito)<br>Project presentation/description  |
| 14:30-15:00 | Ladislau Matekovits (Polito)<br>Width modulated microstrip line as innovative structure for<br>enhanced radar cross section reduction |
| 15:00-15:30 | Giuseppe Labate (Polito)<br>The Mantle of Invisibility: from Harry Potter to Ronald Foster  |
| 15:30-16:00 | Coffee break/afternoon tea  |



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- 16:00-16:15 Anar Ospanova, Alina Karabchevsky, Alexey Basharin (NUST MISiS; Ben-Gurion University, Israel)  
Metamaterial transparency effects: broken symmetry, multipolar decomposition, Kerker conditions
- 16:15-16:30 Nikita Nemkov, Alexey Basharin, Vassili Fedotov (NUST MISiS; University of Southampton, UK)  
Multipole expansion of non-radiating currents
- 16:30-17:00 Luca Lussardi (Polito)  
Mathematical methods for solving PDE's
- 17:00-17:15 Maria Cojocari (NUST MISiS)  
Planar toroidal metamaterials: Fano-resonances, tunability and strong fields localizations
- 17:15-17:30 Ivan Stenishchev (NUST MISiS)  
All-dielectric metamaterials with toroidal response : water experiments *in situ*
- 17:30-18:00 Round table: Anapole modes for electromagnetic invisibility  
Moderators: L. Matekovits (Polito), A. Basharin (MISiS)
- 18:00 Closing

Note: Light refreshments will be served during the talk.