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Astrophysics

- 1) The formation, evolution and detection of planetary systems
- 2) Stellar dynamics at all scales including dynamics of stars near massive black holes in galactic nuclei
- 3) Stellar and planetary collisions and the stellar dynamics
- 4) Supernovae explosions and stellar evolution
- 5) Solar system bodies: asteroids, Kuiper belt objects, planets and moons
- 6) Pan-spermia: potential transfer of biological components between different planets and planetary systems

Quantum physics

- 7) Quantum computation

Interdisciplinary

- 8) Fingerprints as bio-markers for genetic diseases