



# Seventeenth Marcel Grossmann Meeting

## Monday, 8 July 2024

### **Strong electromagnetic and gravitational field physics: From laboratories to early Universe: Strong electromagnetic and gravitational field physics: from laboratories to early Universe - Sala Paziienza (15:00 - 16:30)**

-Conveners: She-Sheng Xue; Ehsan Bavarsad

time	[id] title	presenter
15:00	[168] Renormalizing the vacuum energy in cosmological spacetime: a new approach to the cosmological constant problem	SOLÀ PERACAUULA, Joan
15:20	[379] Pair Production in Charged Black Holes: Monodromy Approach	Prof. CHEN, Chiang-Mei
15:40	[336] Adiabatic regularization for massive and massless spin-1 fields	MARAÑÓN GONZÁLEZ, Javier
16:00	[202] Magnon-antimagnon pair production by magnetic field inhomogeneities and the bosonic Klein effect	ADORNO, Tiago

### **Strong electromagnetic and gravitational field physics: From laboratories to early Universe: Strong electromagnetic and gravitational field physics: from laboratories to early Universe - Sala Paziienza (17:00 - 18:30)**

time	[id] title	presenter
17:00	[98] Non-linear media in weakly curved spacetime: optical solitons and probe pulses for gravimetry	RÄTZEL, Dennis
17:20	[48] Broken energy degeneracy in non-uniform magnetic field: Faster quantum speed limit	AGGARWAL, Srishty
17:40	[106] Electromagnetic memory in arbitrary curved spacetimes	JANA, SUSMITA
18:00	[50] Novel resummations for strong field (S)QED	Dr FRANCHINO-VIÑAS, Sebastián
18:20	[214] A study of scalar quantum electrodynamics in de Sitter spacetime	Dr BAVARSAD, Ehsan