# YOUNGST@RS - Loop-the-Loop: Feynman Calculus and its Applications to Gravity and Particle Physics

## Wednesday 13 November 2024

**Scattering Amplitudes in Gravity: Extreme Mass Ratio Systems (10:30 - 12:00)**

| time | [id] title | presenter |
|------|-----------|-----------|
| 10:30 | [12] Solving Einstein equation using recursions | LEE, Kanghoon |
| 11:00 | [13] Schwarzschild geodesics from Scattering Amplitudes to all orders in G | MOUGIAKAKOS, Stavros |
| 11:30 | [14] Effective field theory in a mass ratio expansion | SHAH, Nabha |

**Scattering Amplitudes in Gravity: Post-Minkowskian Integrals (13:30 - 15:00)**

| time | [id] title | presenter |
|------|-----------|-----------|
| 13:30 | [15] How to compute Post-Minkowskian integrals | KÄLIN, Gregor |
| 14:00 | [16] Analytic Waveforms from Scattering Amplitudes | DE ANGELIS, Stefano |
| 14:30 | [17] Black hole scattering at fifth Post-Minkowskian and first self force order | SAUER, Benjamin |

**Scattering Amplitudes in Gravity: Cosmological Correlators (15:30 - 17:00)**

| time | [id] title | presenter |
|------|-----------|-----------|
| 15:30 | [18] Differential Equations for Cosmological Correlators | LEE, Hayden |
| 16:00 | [19] A physical basis for cosmological correlators from cuts | DE, Shounak |
| 16:30 | [20] On the loop structure of the wavefunction of the universe | VAZÃO, Francisco |