



Contribution ID: 46

Type: **not specified**

## On 6D $N=(1,0)$ Supergravity

*Monday, 21 March 2022 15:40 (15 minutes)*

The main quest of modern physics is to describe all four elementary interactions within the same framework. Our inability to incorporate gravity as a renormalizable quantum field theory is a major motivation for a physics beyond the standard model, the most amazing progress we have made to understand quantum gravity is through local supersymmetry theory: supergravity. We contribute to outlining the most necessary consistency conditions for any quantum gravity theory essentially the anomaly consideration, the moduli space consideration, the BPS space consideration and some geometric conditions. All within the framework of 6D supergravity theories due to their successful landscape analysis.

**Primary authors:** SAMMANI, Rajae (LPHE-MS, Science faculty, Mohammed V University in Rabat, Morocco.); AHL LAAMARA, Rachid (LPHE-MS, Science faculty, Mohammed V University in Rabat, Morocco.); BOU-JAKHROUT, Youssra (LPHE-MS, Science faculty, Mohammed V University in Rabat, Morocco.)

**Presenter:** SAMMANI, Rajae (LPHE-MS, Science faculty, Mohammed V University in Rabat, Morocco.)

**Session Classification:** Parallel Session II