

## **Deformed phase space in cosmology and the cosmological constant**

Effects of noncommutativity of the phase space deformations are presented on Schwarzschild, Kerr black holes making a comparative study of their thermodynamical properties. In the case of the cosmological constant, this idea has been previously studied in FRW cosmology where the noncommutativity provides a simple mechanism that can explain the origin of the cosmological constant.

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**Track Classification:** STARS2017