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Quark-gluon plasma multiplicity from AdS spaces modifications

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In holographic approach the Quark Gluon Plasma (QGP) formation in 4D space is related with Black Hole (BH) creation in 5D Anti de Sitter space (AdS) and multiplicity in heavy-ion collisions is determined by entropy of 5D BH. Using the general relativity technique the entropy of formed BH can be estimate by the trapped surface area. We simulate energy dependence of entropy considering modifications to AdS by different wrapping factors. We compare the results with experimental data.

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