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9.MATEMATICKÉ KOLOKVIUM

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Riemannian geometry of the algebra $[a, b] = b$

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Abstract:

We study the algebra $[a, b] = b$ regarded as a 'coordinate algebra'. We show that its intrinsic noncommutative Riemannian geometry contains a Ricci curvature singularity at $a = 0$ which can be viewed as a gravitational source so strong that even light can't escape. Based on my recent paper with E.J. Beggs.