

Singularity resolution

Ashtekar-Bojowald Paradigm
(Information paradox resolution)

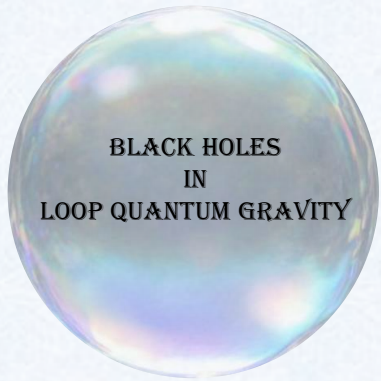
Quantum transition surface between two classical spacetimes

Rovelli - Haggard Model
(cumulative quantum effects at the horizon)

BH-WH transition

Wilson Ewing - Husain Model
(effective theory)

BH-WH transition or Shockwave



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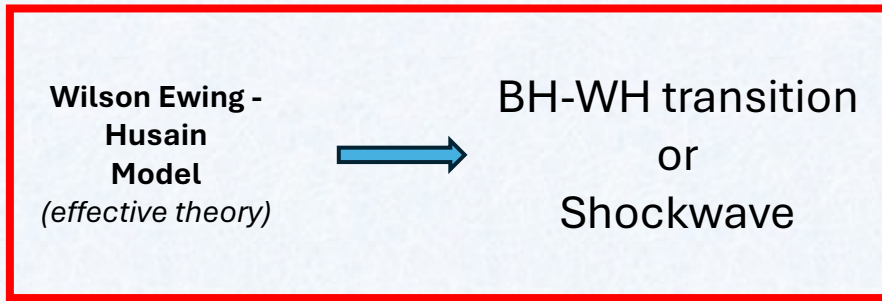
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My contributions:

- Semiclassical version of Schwarzschild metric (Birkhoff's theorem?)
[J. Lewandowski, Y. Ma, J. Yang, C. Zhang (2023) - LC, J. Lewandowski (2024)]
- Semiclassical gravitational collapse with pressure
[LC, L. Cipriani, F. Fazzini, F. Soltani (to appear soon)]
- Fully quantum approach to spherical collapse
[work in progress --- contact point with Rovelli's model??]