A Local Diagnostic Program for Unitary Evolution in General Space-times

Ka Hei Choi, Stefan Hofmann, Marc Schneider

Arnold Sommerfeld Center for Theoretical Physics, Theresienstraße 37, 80333 Munchen, Germany

Key Points:

- Diagnostic framework for quantum field theory in curved spacetimes
- Theory (semi-classicality) breaks down at high curvature region
- Quantum field simulations in an expanding universe
- ML application as a classification problem.







