The 4th Conference of the Polish Society on Relativity



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Domain walls in curved spacetimes

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Topological defects such as domain walls are present in many Beyond Standard Model theories and cosmological models. We investigate the behaviour of a thick domain wall in the Kerr spacetime. We simulate the transit of a light domain wall through the Kerr black hole to show how this behaviour depends on the domain walls' parameters and the black hole's spin. We also point out the presence of ringing modes.

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