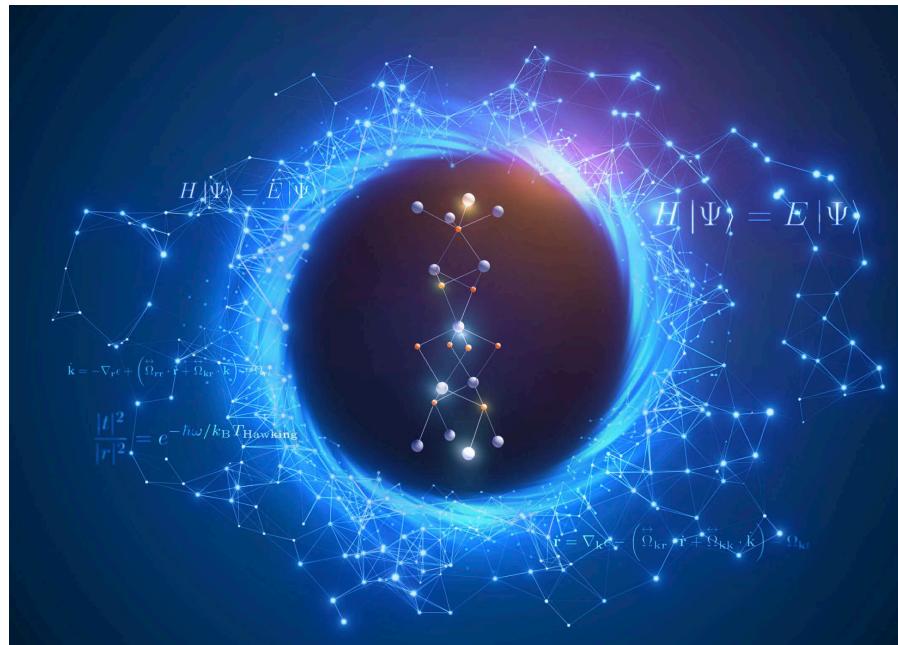


<https://uni-due.zoom.us/j/61527991979?pwd=OHZyNktyRldiN1A2ZVhhb3Z5Q3F6dz09>
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Black hole in the rocks

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In a particularly fruitful marriage, high-energy and solid-state physics combined to give rise to the field of relativistic semimetals. After many exciting discoveries in graphene, a two-dimensional material, the three-dimensional Weyl semimetals are now at the focus of the field. I will review how relativity enters these exciting solid-state materials, discuss in which sense a rock resembles pions and black holes, and review some of the recent experimental and theoretical developments in the field of relativistic semimetals.