



Contribution ID : 78

Type : Award lecture

Majorana fermions in condensed matter physics. Examples

Thursday, 26 September 2024 16:05 (30)

In this lecture I will concentrate on Majorana fermions as collective excitations and consider two examples related to my own research. The first is the 2-channel Kondo effect where Majorana zero mode emerges as a remnant of the overscreened impurity spin, and the other is the solvable model of 3D Kondo lattice where Majorana fermions of the spin liquid create bound states with conduction electrons giving rise to an exotic superconductivity.

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Session Classification : Award session