



Seminar/Talk

Two Nonsymmorphic Tales

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Abstract: Nonsymmorphic symmetries have been in the spotlight in condensed matter physics since the advent of topological band theory and, most recently, have been highlighted in the context of altermagnetism. In this talk, I will briefly introduce nonsymmorphic symmetries and discuss two other scenarios in which the presence of nonsymmorphic symmetries can lead to novel physical phenomena. The first example concerns superconductivity-induced odd-parity orders inspired by the phenomenology of the heavy-fermion CeRh_2As_2 [1]. The second example involves the protection of a ferromagnetic quantum critical point against its transmutation to a first-order phase transition [2]. [1] A. Szabo and A. Ramires, *Physical Review B* 110 (18), L180503 (2024) [2] S. Shin, A. Ramires et al., *Nature Communications* 15 (1), 8423 (2024)

Thursday, June 26, 2025 11:00am - 12:00pm

Sunstone Bldg / Ground floor / Big Seminar Room A



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