

Abstract Submitted
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Angle resolved photoemission studies of $\text{YbRh}_2(\text{Si}_{1-x}\text{Ge}_x)_2$ S.-K. MO, K. TANAKA, N. MANNELLA, Stanford University and Advanced Light Source, C. CAPAN, D.J. KIM, Z. FISK, UC Irvine, Z. HUSSAIN, Advanced Light Source, Z.-X. SHEN, Stanford University — $\text{YbRh}_2(\text{Si}_{1-x}\text{Ge}_x)_2$ has attracted a lot of attention as the first Yb-based system with a quantum critical point (QCP) at $x \sim 0.05$. The QCP can be tuned by either magnetic field or chemical substitution, and non Fermi liquid properties have been observed in the vicinity of it. We present high-resolution angle resolved photoemission data on this compound as a function of Ge-doping. The result will be discussed in conjunction with various theoretical proposals on the Fermi surface topology of this material.

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