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Evolution of the Hyperfine Couplings with Pressure in $CeRhIn_5$
NICHOLAS CURRO, CHING LIN, KENT SHIRER, JOHN CROCKER, ADAM DIOGUARDI, ABIGAIL SHOCKLEY, MATTHEW LAWSON, Univ of California - Davis — Measurements of the Knight shift in $CeRhIn_5$ under pressure reveal several changes to the hyperfine coupling constants at both the In(1) and In(2) sites. We discuss these changes, both to the on-site contact term as well as the transferred term to the local moments. Our data suggest that the changes we observe reflect changes in the hybridization of the Ce 4f moments as the system is tuned from an antiferromagnetic ground state to superconducting.

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