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## Critical scattering in classical and nearly quantum critical systems

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We report on a study of critical scattering in classical and nearly quantum critical antiferromagnets (AFs). The energy width of the critical scattering was determined by high-resolution neutron spin-echo at TRISP at the MLZ. The classical systems studied include the s=5/2 AFs MnF2 and Rb2MnF4 with quasi 2D and 3D spin interactions, respectively. Discrepancies between experiment and theory observed in previous three-axis studies could be resolved by our high-resolution measurement. For a study of quantum critical systems, we chose the Ce Cu6-x Aux series, which has a quantum critical point at x=0.1 and shows AF ordering for larger x. First measurements at Ce Cu5.8 Au0.2 (TN=0.22K) show a hitherto unexplained dynamical critical exponent.

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