

Abstract Submitted
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**New developments for the measurements of magnetic moments
of sub-ps states using RIB-projectile excitation and transfer reactions**

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— It is intrinsically difficult to measure nuclear moments reliably and with sufficient accuracy especially for short-lived excited states of rare isotopes. The application of projectile excitation using transient hyperfine fields for the magnetic interaction is an established method. The latest developments of the technique and results for stable and radioactive projectiles will be discussed. In addition to the Coulomb excitation of the projectiles on carbon targets, the transfer of an alpha particle to the projectile leads to probe ions, some radioactive, which are otherwise not accessible as beams, thus extending the reach of the method.

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