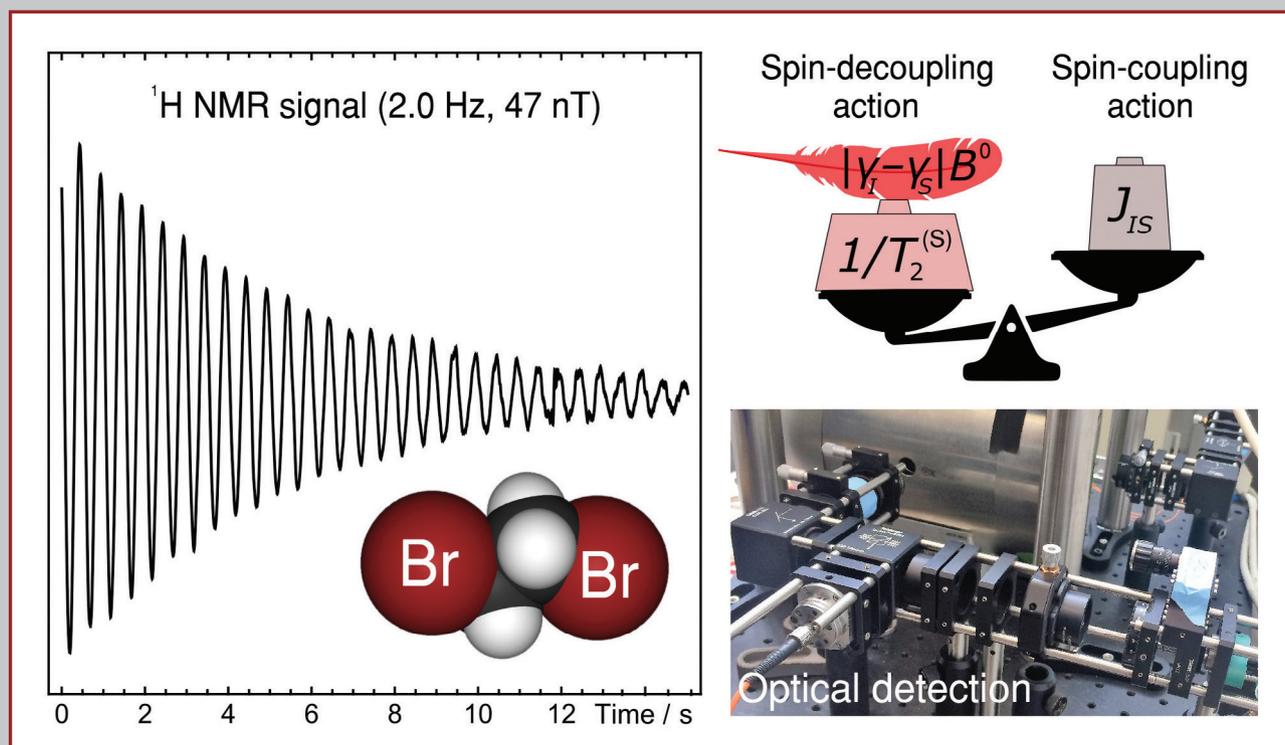


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Interplay between spin-1/2 and spin $> 1/2$ (quadrupolar) nuclei is investigated near zero field using an optical magnetometer; spectral frequencies and line widths are determined by the balance between spin-coupling and spin-decoupling interactions.

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