

## MAGNETIC EXCITATIONS IN $(\text{VO})\text{DPO}_4 \cdot \frac{1}{2}\text{D}_2\text{O}$ (Ref. 1)

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The magnetic excitations of an antiferromagnetic spin-dimer system,  $(\text{VO})\text{DPO}_4 \cdot \frac{1}{2}\text{D}_2\text{O}$ , are examined using an inelastic neutron scattering technique. A dispersionless mode is found, consistent with our expectations for a dimer excitation. The intensity variation of the mode reveals a  $\text{V}^{4+} - \text{V}^{4+}$  dimer separation of  $4.43 \text{ \AA}$ , almost 50% larger than the originally expected length.

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