

Perugia Advanced Physics Seminars

A journey to the frontiers of knowledge

April 23, 2021 - 15:00

Neutrons for Magnetism in Spin Chain Materials

Neutrons are a privileged probe to study condensed matter in general and magnetic systems in particular. In the first part of this seminar, I will present the potentialities and flexibility of neutron scattering in this field, along with a brief introduction on magnetism. In the second part I will provide an exemplary application of such potentialities, focusing on the study of the spin chain antiferromagnetic compound $\text{BaCo}_2\text{V}_2\text{O}_8$. I will show how neutron scattering was able to evidence remarkable magnetic properties in this system, regarding both structure and dynamics, in the absence and in the presence of an applied magnetic field.



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Zoom link here



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