

57Fe Mössbauer effect and the applications in magnetic materials

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Mössbauer effect is a physical phenomenon used in many fields, such as physics, chemistry, material science, etc. ^{57}Fe is one of the most important nuclei used in Mössbauer spectroscopy due to the long half life of parent. On the other hand, Fe is also one of the most important magnetic element, and the magnetic property or other properties of iron alloys and compounds are investigated widely. We summarized the advantages and applications of Mössbauer spectroscopy in magnetic materials, and try to discuss the future applications on nuclear resonant scattering and Mössbauer effect.

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