

# Advances in Mössbauer Spectroscopy Instrumentation

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Mössbauer spectrometer is also focused in our research to apply in-situ detection of heritages.. Mössbauer Spectroscopy is well-known technique in material research, especially in a field of iron-based materials research. Typical problem the researchers need to solve is to have proper and precise instrument, keeping simple and user friendly usage. Our department is developing and using Mössbauer spectrometers on every day basis for about 30 years. During this period, we gathered a lot of important experiences to be able to design modern and precise equipment.

The main technical principles of Mössbauer spectroscopy instruments will be discussed. The last advances and experiences in instrumentation will be presented, including different detection systems, velocity drives and examples of custom-made solutions for specific experiments.