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BIOMAT@APPA Cave: Beamline infrastructure and advanced instrumentation

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For experiments dedicated to biophysics and materials science (BIOMAT), the future APPA cave will provide a multi-user facility. The beamline and the experimental station have to cover very different user demands covering a broad range of beam intensities, energies and pulse structures and requiring flexible beam diagnostics and on-line monitoring of beam parameters. The target area includes settings for efficient sample exchange systems for irradiations of small (e.g., biocells) and large (e.g., satellite components) samples in air, a multi-port UHV chamber for irradiations and in-situ material analysis under high vacuum conditions, as well as special high-pressure devices to simultaneously expose samples to pressure, temperature, and energetic ions.

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