High Repetition Rate (HRR) Laser System

Common Laboratory Equipment

1 Optical Microscope
   - Microscope Zeiss Axio Imager A2m

2 Beam Characterization & Measurement
   - Temporal characterization of laser pulses
      - Autocorrelator 'Single Shot' for quick compressor alignment of laser. Continuous or daily monitoring.
      - FROG and SPIDER for 800 nm.
   - Measurement of laser power
      - Thermopile detector for the mW – W range
   - Spatial analysis of the beam
      - CCD with beam nalysis software (*DataRay*)
   - Wavefront analysis
      - Device for wavefront analysis softwtware (*Phasis*)
   - Spectral analysis
      - Fiber spectrometer centered at 800 nm (vis-NIR). Singlemode and multimode fibers suitable
      - Fiber spectrometer centered at 400 nm (UV-vis). Singlemode and multimode fibers suitable

Auxiliary Equipment

1 Electronic material
   - Fast photodiodes and wiring
   - Oscilloscope

2 Optic Material
   - Focusing Optics
   - Neutral filters, bandpass filters
   - Mirrors

3 Optomechanic material
   - Rails, brackets
   - Micrometrics displacements

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