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## Towards single-shot spatio-temporal characterisation of a multi-PW laser

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Full characterisation of ultra-intense laser pulses not only requires their separate characterisation in space and time, but also measurement of the entire spatio-temporal field distribution  $E(x, y, t)$ . While a variety of techniques has been developed for this purpose (e.g. STARFISH, TERMITES or INSIGHT), most of them rely on spatial or temporal scanning and thus require some thousand shots for a single measurement. An exception to this rule is STRIPED-FISH, which uses interferometry combined with hyperspectral imaging. We present a variation of STRIPED-FISH for implementation at the ATLAS-3000 multi-PW laser system in Garching. Providing the spatio-temporal distribution in a single shot, the setup is particularly suitable for experiments with low-repetition rate lasers aiming for highest focal intensities.

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