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Overview in Solid State Chemistry - The laser-heated DAC as a reaction chamber

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One envisaged class of experiments at the “extreme conditions” station at PETRA-III are synthesis experiments at very high pressures and temperatures. I will summarize recent work on the synthesis of carbides and nitrides in laser heated diamond anvil cells and discuss future prospects in this research area.

Primary author: Prof. WINKLER, Bjoern (Goethe-Universitaet Frankfurt)

Presenter: Prof. WINKLER, Bjoern (Goethe-Universitaet Frankfurt)

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