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【712】 Femtosecond x-ray techniques: a window towards material control

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Here I give an overview of some applications of femtosecond time-resolved x-ray methods to study the out-of-equilibrium dynamics of materials. Non-equilibrium pathways represent a novel means of manipulating order parameters, but in order to effectively understand and use these pathways we need experimental means to “see” the dynamics associated with these order parameters. X-rays offer some unique opportunities in this regard, largely due to the photon energy and momentum.

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