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An ultrafast strong-field terahertz light source to characterize quantum functional materials

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An ultrafast strong field terahertz (THz) light source will be built at the Hefei National Laboratory. This light source aims to characterize the multi-quantum collective behavior of the quasiparticles and enable the cutting-edge exploration of materials for the quantum information technique. To meet these goals, the light source needs to cover the electromagnetic spectrum of 0.1-10 THz, the minimum width of light pulse should be shorter than 100 fs, and the maximum intensity of electric field should exceed 1 MV/cm. In this paper, the ultrafast strong field THz light source is introduced.

Footnotes

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