Abstract Submitted
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Liquid-liquid transitions in low-Z materials: Parallel with high-pressure solid phase transitions[1] STANIMIR BONEV, ISAAC TAMBLYN, ADAM CHAFFEY, Dalhousie University, Canada, JEAN-YVES RATY, University of Liege, Belgium — First-principles molecular dynamics simulations reported in [1] predict structural and electronic transitions in dense liquid sodium that are responsible for its exotic melting curve. In this talk, the possibility for observing similar behavior in other low-Z materials will be discussed. Results from ab initio calculations of several materials will be presented and compared with sodium. [1] Jean-Yves Raty, Eric Schwegler and Stanimir A. Bonev, submitted.

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