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Some Issues of the BCS-BEC Crossover for Dense Quark Matter ISRAEL PORTILLO VAZQUEZ, EFRAIN FERRER, VIVIAN INCERA, JASON KEITH, University of Texas at el Paso — We explore the possible BCS-BEC crossover on strong-interacting matter and its implications for the system's equation of state. The study will be focus on different phases of dense quark-matter beyond nuclear density and at vanishing temperatures. We show that in the strongly coupled 2SC phase of color superconductivity no BCS-BEC crossover can take place due to the system's color neutrality.

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