

Abstract Submitted
for the DNP10 Meeting of
The American Physical Society

Spin-triplet pairing in very large nuclei GEORGE BERTSCH, YUAN LUO, University of Washington — Spin-triplet pairing is expected to compete favorably against ordinary spin-single pairing when neutron and proton numbers are equal the nucleus becomes very large. Using empirically derived interactions, the spin-triplet region was found to start just beyond the domain of physically realizable nuclei*. We investigate here how the dominant pairing mode depends on nuclear deformation and neutron excess. We find that the spin-triplet pairing can persist to large deformations when $N=Z$ and in spherical nuclei with some small neutron-proton asymmetry.

G.F. Bertsch and Y. Luo, Phys. Rev. C **81** 064320 (2010)

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Date submitted: 30 Jun 2010

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