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**Realistic three-nucleon effective interaction from the folded-diagram theory** MAXIM KARTAMYSHEV, MORTEN HJORTH-JENSEN, TORGEIR ENGELAND, EIVIND OSNES, Department of Physics, University of Oslo, Norway — Starting from the folded-diagram theory of Kuo and collaborators, we construct an effective three-nucleon interaction originating from the two-nucleon force. Influence of the three-nucleon terms on nuclear properties is investigated in shell-model studies of selected nuclei in  $^{16}\text{O}$ ,  $^{40}\text{Ca}$  and  $^{100}\text{Sn}$  mass regions.

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