

# Theory of proton emitters - an overview

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Various theoretical approaches to proton emission from spherical and deformed nuclei are reviewed. Particular attention is paid to the choice of the proton-daughter optical model potential. Various approximation schemes to compute the proton width are briefly compared. It is demonstrated that deformed proton emitters provide invaluable spectroscopic information on the angular momentum decomposition of single-proton orbitals in deformed nuclei. Perspectives for future research are given.

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\*This research was supported by the U.S. Department of Energy under Contract Nos. DE-FG02-96ER40963 (University of Tennessee) and DE-AC05-96OR22464 with Lockheed Martin Energy Research Corp. (Oak Ridge National Laboratory).