Projected Hartree-Fock in a shell model basis[1] JOSHUA STAKER,
CALVIN JOHNSON[2], San Diego State University — We implement projected
Hartree-Fock in a shell model basis and compare against exact numerical results
from full space diagonalization. We consider the accuracy of projected Hartree-Fock
for the excited state spectrum in the cases of the s - d and p - f fixed parity shells
as well as cases of mixed parity in the p - sd shell. The accuracy of valence proton-
neutron number configurations are also considered including even-even, odd-odd,
and odd-A.

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