

THE TWO-ANYON PROBLEM WITH A MAGNETIC
IMPURITY

S. Mashkevich

Taras Shevchenko Kyiv National University,
Faculty of Physics
(2, Academician Glushkov Ave., Kyiv 03022, Ukraine;
e-mail: mash@mashke.org)

S u m m a r y

The system of two anyons (particles with fractional statistics in two dimensions) is considered in the presence of a magnetic impurity, i.e., a static magnetic flux. A numerical algorithm for finding the spectrum is worked out; the ground state is computed and is found to exhibit a nontrivial level crossing.