

**TALENT Course 6: Theory for exploring nuclear reaction experiments**  
**Exercises: (d, p) Transfer reactions in DWBA**

We consider the reaction has the type  $X(g . s.)(d, p)Y(j^\pi)$  and use fresco to compute the transfer cross sections. The example input for transfer type calculations can be found at <http://www.fresco.org.uk/examples/B5-example-tr.in> . Modify this input file for your favorite  $(d, p)$  reaction listed in [https://groups.nsl.msu.edu/nsl\\_library/pddp/dpdata/DPdatabase.html](https://groups.nsl.msu.edu/nsl_library/pddp/dpdata/DPdatabase.html) . The interactions/potentials used in calculations can be found at <https://www-nds.iaea.org/RIPL-3/>