

BOUND_BSW

Description:	converts the close-coupling <i>B</i> -spline expansions to the <i>c</i> - and <i>bsw</i> -files
Input files:	bound.nnn , bound_bsw.inp , target , knot.dat , cfg.nnn , target.bsw
Output files:	<i>c</i> - and <i>bsw</i> -files for given states, indicated in the input file
Call as:	bound_bsw [mode=...] (if given input file bound_bsw.inp), or bound_bsw klsp=... sol=... name=... , where klsp - partial wave index sol - state index' name - name for given state

The results of the BSR bound-state calculations are recorded in the **bound.nnn** files in the form of the corresponding B-spline close-coupling expansions. The BOUND_BSW utility collects the information for a given bound state indicated in the file **bound_bsw.inp**, and records it as pair (**name.c** , **name.bsw**). These files can be used as input target files for the further BSR calculations or other applications.

Input file is usually created on the base of the **bound_tab** file created by utility BOUND_TAB and contains the list of states to be processed. Each line contains the information for one state as index of the partial wave, index of the state for given partial wave and assigned name. Asterisk denotes the end of the list. The names are usually assigned by user. In case of large-scale calculations with hundreds of states, it is more convenient to use additional optional argument **mode**. In this case, all names are assigned automatically as **mode_nnn_mmm**, where **nnn** =<**klsp**> – index of partial wave, **mmm**=<**sol**> index of the state. If needed to output a few individual states, the user can employ the command-argument option indicated above.