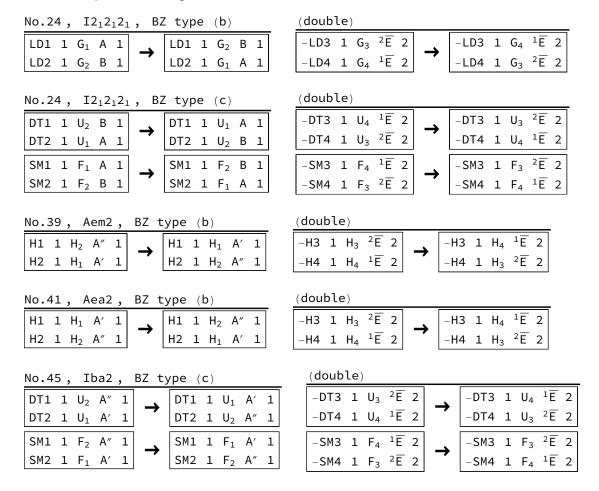
## Changes of showKrepBCStoBC

Gui-Bin Liu 2021-12-29

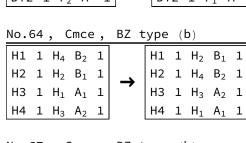
When  $SpaceGroupIrep \le v1.0.4$ , there was a bug that the same LGIR label may give different LGIR matrices in certain cases. This case may occur for the H k-line of OrthBase lattice or the G, F, and U k-lines of OrthBody lattice. For example, the following two statements should give the same LGIR's, but they gave different LGIR's when  $SpaceGroupIrep \le v1.0.4$ .

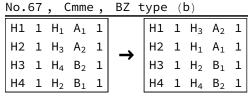
```
showLGIrepTab[39, "H", "abcOrBasVec"->\{a-2, b-3, c-4\}, "rotmat"->False] showLGIrepTab[39, "H", "abcOrBasVec"->\{a-3, b-2, c-4\}, "rotmat"->False]
```

The list of changes of showKrepBCStoBC are shown below.

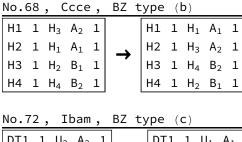


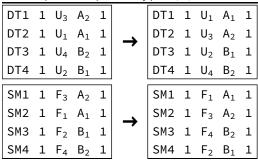
## No.46, Ima2, BZ type (b) LD1 1 $G_3$ $A_2$ x LD2 1 $G_1$ $A_1$ x LD3 1 $G_4$ $B_2$ x LD4 1 $G_2$ $B_1$ x No.46, Ima2, BZ type (c) DT1 1 $F_1$ A' 1 DT2 1 $F_2$ A'' 1

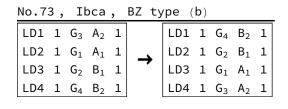




 $\mathbf{v}$ 







(double)

-DT3 1  $F_4$   ${}^1\overline{E}$  2

-DT4 1  $F_3$   ${}^2\overline{E}$  2

-DT3 1  $F_3$   ${}^2\overline{E}$  2

 $-DT4 1 F_4 \overline{E} 2$ 

