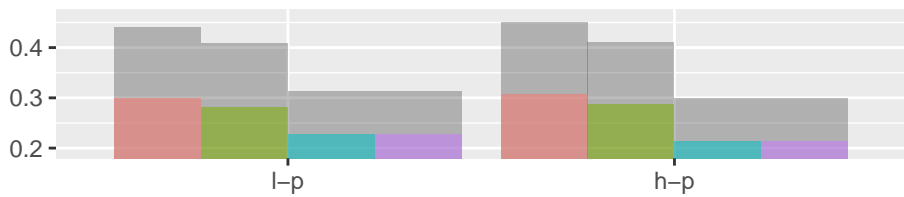


## rMSE

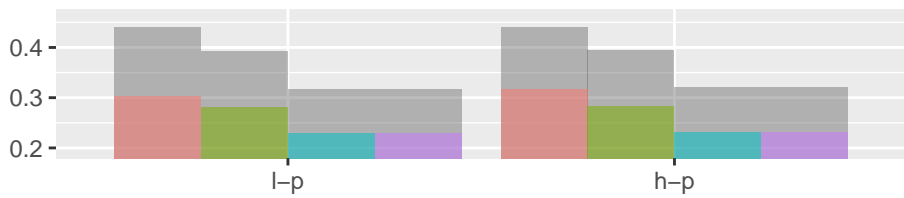
a

$$\delta_{1p} = 0, \delta_{1l} = \delta_{2l} = 0, \delta_{1h} = \delta_{2h} = 0$$



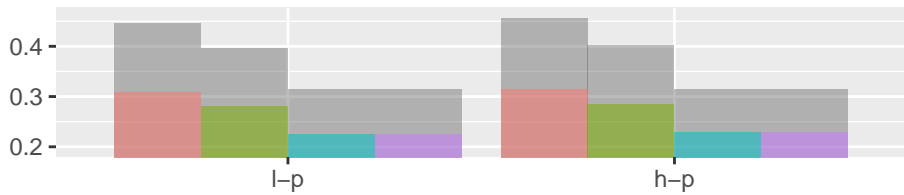
**b**

$$\delta_{1p} = 0, \delta_{1l} = \delta_{2l} = 0, \delta_{1h} = \delta_{2h} = 6$$



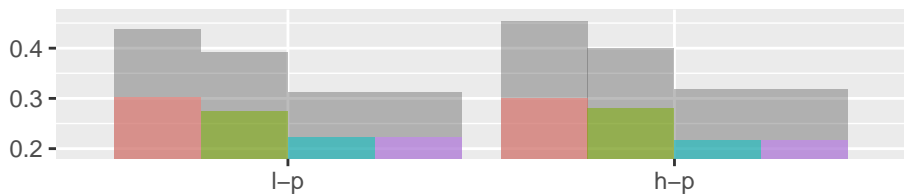
C

$$\delta_{1p} = 0, \delta_{1l} = \delta_{2l} = 2, \delta_{1h} = \delta_{2h} = 6$$



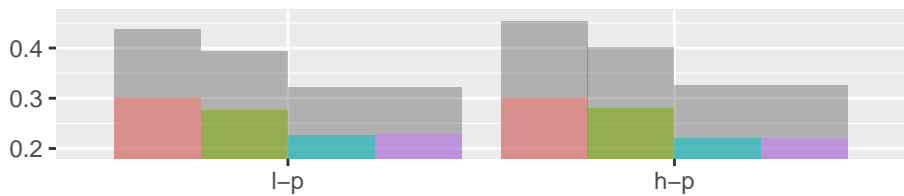
d

$$\delta_{1p} = 0, \delta_{1l} = \delta_{2l} = 4, \delta_{1h} = \delta_{2h} = 8$$

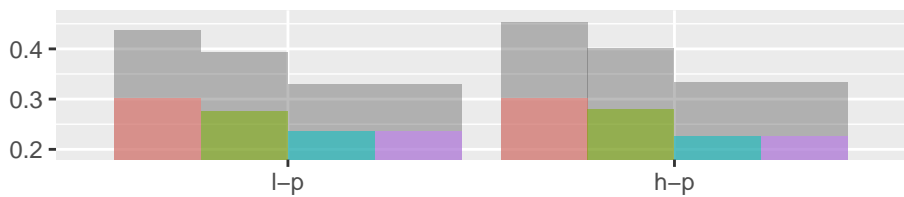


e

some unaligned  $\delta_{1p} = 0$ ,  $\delta_{1l} = \delta_{2l} = 4$ ,  $\delta_{1h} = \delta_{2h} = 8$

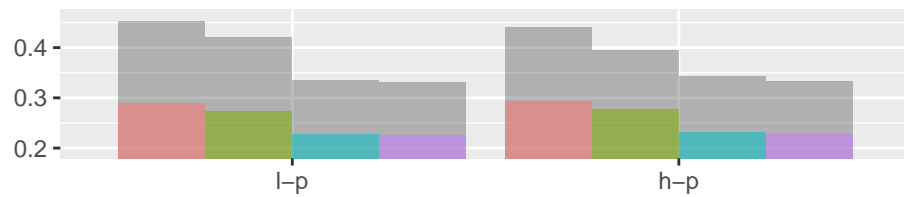
**f**

cmplt unaligned  $\delta_{1p} = 0, \delta_{1l} = \delta_{2l} = 4, \delta_{1h} = \delta_{2h} = 8$



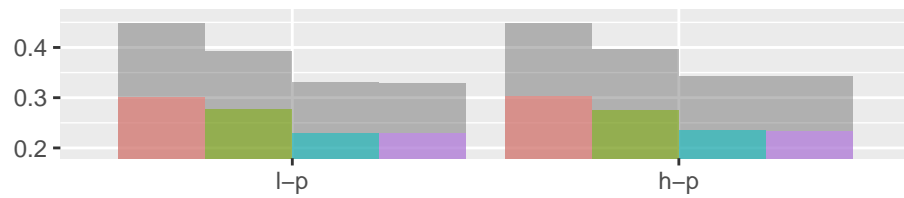
g

$$\delta_{1p} = 0, \delta_{1l} = 0, \delta_{2l} = 1, \delta_{1h} = 0, \delta_{2h} = 1$$



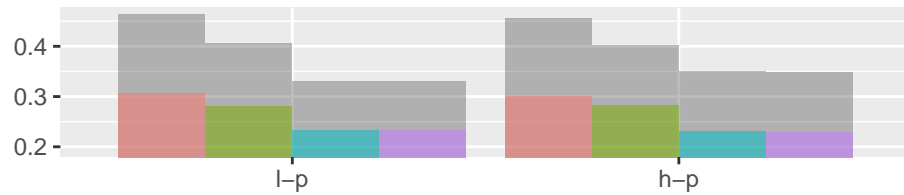
## h

$$\delta_{1p} = 0, \delta_{1l} = 0, \delta_{2l} = 1, \delta_{1h} = 6, \delta_{2h} = 7$$



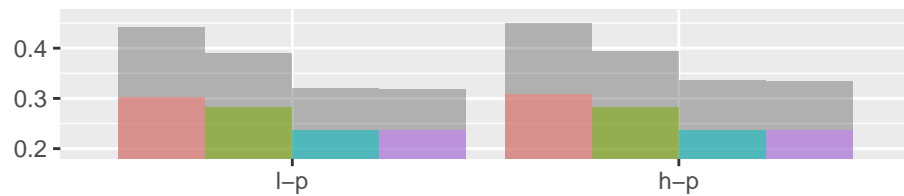
i

$$\delta_{1p} = 0, \delta_{1l} = 2, \delta_{2l} = 3, \delta_{1h} = 6, \delta_{2h} = 7$$



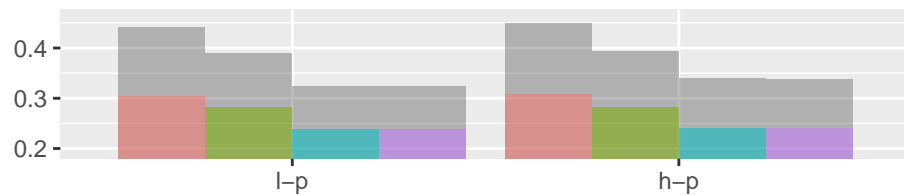
j

$$\delta_{1p} = 0, \delta_{1l} = 4, \delta_{2l} = 5, \delta_{1h} = 8, \delta_{2h} = 9$$



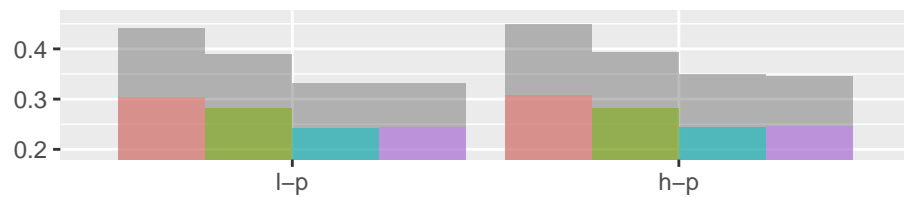
**k**

some unaligned  $\delta_{1p} = 0$ ,  $\delta_{1l} = 4$ ,  $\delta_{2l} = 5$ ,  $\delta_{1h} = 8$ ,  $\delta_{2h} = 9$



1

cmplt unaligned  $\delta_{1p} = 0, \delta_{1l} = 4, \delta_{2l} = 5, \delta_{1h} = 8, \delta_{2h} = 9$



Model  MMRM  BJSM  BLPM  RBLPM