## Supplementary Figure 1

5PC


Supplementary Figure 2
7PC


## Supplementary Figure 3



## Supplementary Figure 4

12PC


## Supplementary Figure 5

14PC


Supplementary Figure 6




Supplementary Figure 8
$\mathrm{R}_{\| \mid}$chain

Supplementary Figure 9
$S_{2}$ chain


Supplementary Figure 10
$S_{x x}$ chain


Supplementary Figure 11


## Supplementary Figure 12

DPPTC


## Supplementary Figure 13

## SPMHEAD



Supplementary Figure 14
$\mathrm{S}_{2}$ DPPTC (circles) $\mathrm{S}_{2}$ SPMHEAD (squares)


Supplementary Figure 15 DPPTC: $S_{x x}$ (circles) $S_{y y}$ (squares) $S_{z z}$ (diamonds)


## Supplementary Figure 16 SPMHEAD: $S_{x x}$ (circles) $S_{y y}$ (squares) $S_{z z}$ (diamonds)



## Supplementary Figure 17

CSL


Supplementary Figure 18
CSL: $\mathrm{S}_{\mathrm{yy}}$ (circles) $\mathrm{S}_{\mathrm{xx}}$ (diamonds) $\mathrm{S}_{\mathrm{zz}}$ (squares)


