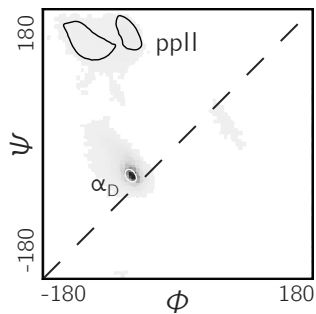


**(a)**

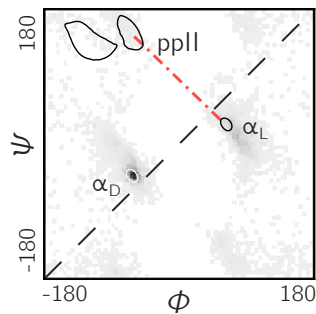
Ramachandran plots

*i.*

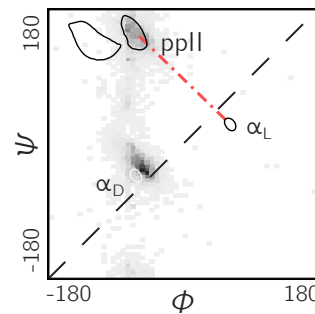
all residues (\*)

*ii.*

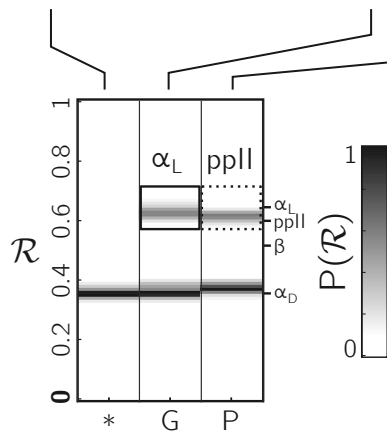
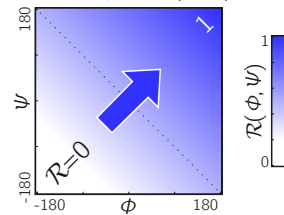
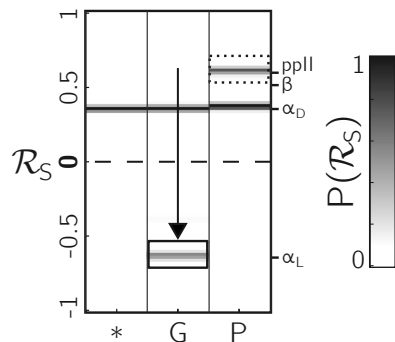
glycine (G)

*iii.*

proline (P)



$P(\phi, \psi)$   
 0 1  
 low-density regions  
 accentuated

**(b)** $\mathcal{R}$  codesMapping from  $(\phi, \psi)$  to  $\mathcal{R}$ **(c)***(signed)*  $\mathcal{R}$  codes ( $\mathcal{R}_S$ )Mapping from  $(\phi, \psi)$  to  $\mathcal{R}_S$ 