Supporting Information

Phenyl-Ring Dynamics in Proteins and Amyloid Fibrils: the Consistent Microscopic-Order-Macroscopic-Disorder Perspective

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**Figure S1.** $^2$H quadrupole-echo spectra of F19 in the hydrated 2-fold-symmetric striated-ribbon Aβ$_{40}$ amyloid fibril-variant (2fw) at 278 (black), 295 (blue) and 308 (red) K.$^1$

**Figure S2.** $^2$H quadrupole-echo spectra of F58 at 295 K in hydrated (black) and dry (blue) HP36.$^2$
Figure S3. 3D plots of the potential \( u = -1.8D_{00}^2 - 2.6(D_{02}^2 + D_{0-2}^2) \), and the corresponding probability density, \( P = \exp(-u) \) (part a); 3D plots of the potential \( u = -1.2D_{00}^2 - 1.8(D_{02}^2 + D_{0-2}^2) \), and the corresponding probability density, \( P = \exp(-u) \) (part b).

References
