

Supplementary Material for

A six-dimensional alpha proton detection-based APSY experiment for backbone assignment of intrinsically disordered proteins

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Table S1: Projection angle sets for α -synuclein and htau23

| α synuclein | | | | htau23 | | | |
|--------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| α | β | γ | δ | α | β | γ | δ |
| 0° | 0° | 0° | 0° | 0° | 0° | 0° | 0° |
| 0° | 0° | 0° | 90° | 0° | 0° | 0° | 90° |
| 0° | 0° | 90° | 0° | 0° | 0° | 90° | 0° |
| 0° | 90° | 0° | 0° | 0° | 90° | 0° | 0° |
| 90° | 0° | 0° | 0° | 90° | 0° | 0° | 0° |
| 0° | 0° | 90° | $\pm 76^\circ$ | 0° | 0° | 90° | $\pm 77^\circ$ |
| 0° | 90° | 0° | $\pm 59^\circ$ | 0° | 90° | 0° | $\pm 59^\circ$ |
| 0° | 90° | $\pm 22.6^\circ$ | 0° | 0° | 90° | $\pm 21^\circ$ | 0° |
| 90° | 0° | 0° | $\pm 61.8^\circ$ | 90° | 0° | 0° | $\pm 60^\circ$ |
| 90° | 0° | $\pm 25^\circ$ | 0° | 90° | 0° | $\pm 21.8^\circ$ | 0° |
| 90° | $\pm 48.2^\circ$ | 0° | 0° | 90° | $\pm 46.1^\circ$ | 0° | 0° |
| 0° | 0° | 0° | $\pm 76^\circ$ | 0° | 0° | 0° | $\pm 77^\circ$ |
| 0° | 0° | $\pm 45^\circ$ | 0° | 0° | 0° | $\pm 45^\circ$ | 0° |
| 0° | $\pm 67.4^\circ$ | 0° | 0° | 0° | $\pm 69^\circ$ | 0° | 0° |
| $\pm 65^\circ$ | 0° | 0° | 0° | $\pm 68.2^\circ$ | 0° | 0° | 0° |
| $\pm 65^\circ$ | 0° | 0° | $\pm 59.4^\circ$ | $\pm 68.2^\circ$ | 0° | 0° | $\pm 58.1^\circ$ |
| 0° | 90° | $\pm 22.6^\circ$ | $\pm 57^\circ$ | 0° | 90° | $\pm 21^\circ$ | $\pm 57.3^\circ$ |
| 90° | 0° | $\pm 25^\circ$ | $\pm 59.4^\circ$ | 90° | 0° | $\pm 21.8^\circ$ | $\pm 58.1^\circ$ |
| 0° | $\pm 67.4^\circ$ | 0° | $\pm 57^\circ$ | 0° | $\pm 69^\circ$ | 0° | $\pm 57.3^\circ$ |
| 90° | $\pm 48.2^\circ$ | $\pm 17.3^\circ$ | 0° | 90° | $\pm 46.1^\circ$ | $\pm 15.5^\circ$ | 0° |
| $\pm 65^\circ$ | 0° | $\pm 22.9^\circ$ | 0° | $\pm 68.2^\circ$ | 0° | $\pm 20.4^\circ$ | 0° |
| 90° | $\pm 48.2^\circ$ | 0° | $\pm 51.2^\circ$ | 90° | $\pm 46.1^\circ$ | 0° | $\pm 50.2^\circ$ |
| 0° | 0° | $\pm 45^\circ$ | $\pm 70.5^\circ$ | 0° | 0° | $\pm 45^\circ$ | $\pm 71.9^\circ$ |
| $\pm 65^\circ$ | $\pm 45.4^\circ$ | 0° | 0° | $\pm 68.2^\circ$ | $\pm 44^\circ$ | 0° | 0° |
| 0° | $\pm 67.4^\circ$ | $\pm 21^\circ$ | 0° | 0° | $\pm 69^\circ$ | $\pm 19.7^\circ$ | 0° |