

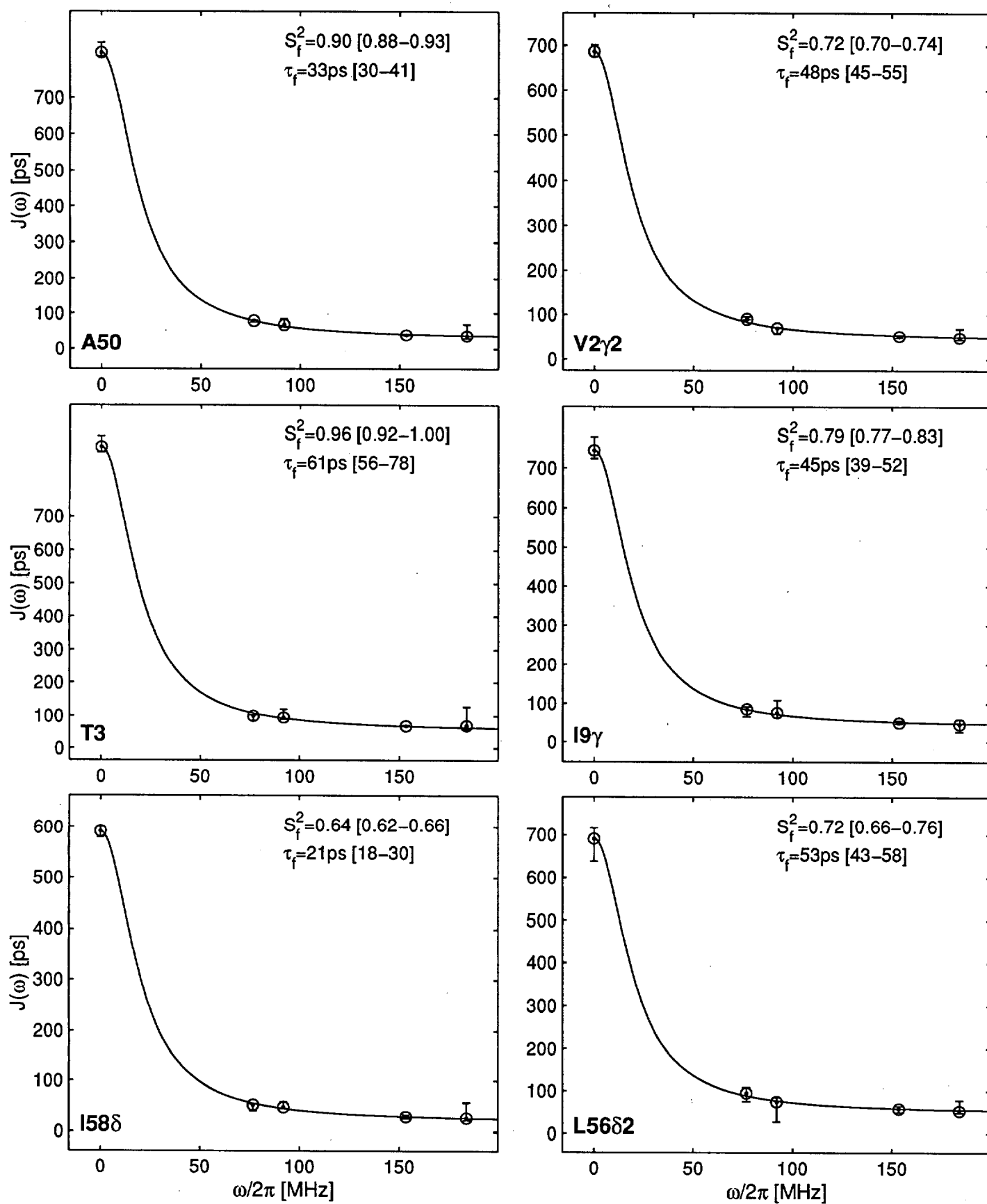


Figure S1A

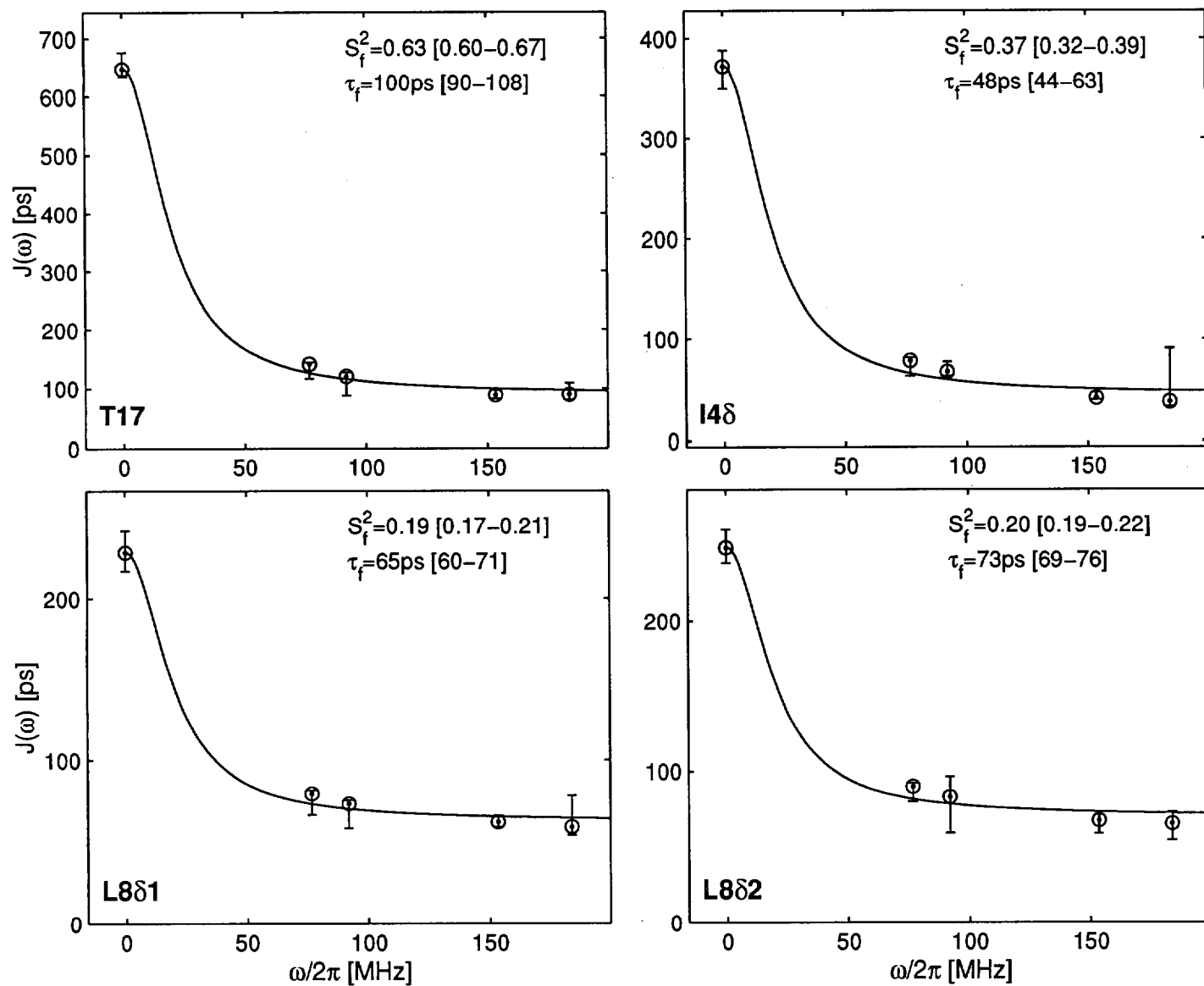


Figure S1B

Table S1: Dynamic parameters extracted from methyl ^2H relaxation data (protein L, 25°C) using either the LS-2 or the LS-3 models.

LS-2	S_f^2	τ_f (ps)	τ_R^{quad} (ns) (*)	
V2 γ 1	0.73 [0.70-0.75]	54 [51-60]	4.44	
V2 γ 2	0.64 [0.61-0.65]	41 [38-46]	4.18	
T3	0.88 [0.86-0.92]	39 [35-44]	4.30	
I4 γ	0.87 [0.86-0.89]	24 [21-25]	4.01	
A6	0.80 [0.78-0.83]	71 [67-76]	3.95	
I9 δ	0.38 [0.36-0.39]	24 [22-27]	4.12	
I9 γ	0.77 [0.75-0.78]	29 [26-33]	3.96	
A11/33	0.82 [0.79-0.86]	49 [42-55]	4.07	
T15	0.57 [0.45-0.62]	69 [55-78]	3.96	
A18	0.81 [0.79-0.84]	57 [53-62]	4.02	
T23	0.84 [0.82-0.86]	39 [34-43]	4.32	
A27	0.86 [0.82-0.91]	85 [78-94]	4.07	
T28	0.88 [0.82-0.94]	41 [31-52]	4.30	
A31	0.83 [0.80-0.84]	77 [73-80]	4.09	
A33/11	0.89 [0.87-0.91]	37 [32-42]	3.95	
A35	0.80 [0.74-0.92]	133 [116-148]	4.05	
T37	0.74 [0.72-0.77]	50 [46-55]	4.19	
L38 δ 1	0.56 [0.49-0.63]	34 [24-47]	4.00	
L38 δ 2	0.47 [0.46-0.48]	42 [40-44]	4.06	
T46	0.69 [0.62-0.73]	63 [54-68]	3.89	
V47 γ 1	0.57 [0.55-0.60]	55 [50-58]	3.95	
V47 γ 2	0.66 [0.64-0.68]	78 [73-82]	4.15	
V49 γ 1	0.68 [0.66-0.70]	34 [31-38]	4.33	
V49 γ 2	0.62 [0.60-0.63]	40 [37-41]	4.04	
A50	0.84 [0.83-0.86]	24 [22-27]	4.03	
T55	0.98 [0.95-1.03]	51 [45-59]	4.15	
L56 δ 1	0.61 [0.52-0.66]	70 [60-80]	3.85	
L56 δ 2	0.61 [0.58-0.63]	38 [35-43]	3.92	
I58 δ	0.58 [0.56-0.59]	17 [16-21]	3.82	
I58 γ	0.82 [0.78-0.84]	27 [22-34]	4.15	
A61	0.60 [0.60-0.61]	46 [44-48]	3.82	
LS-3	S_f^2	τ_f (ps)	τ_c^{eff} (ns)	τ_R^{quad} (ns)
I4 δ	0.52 [0.41-0.56]	20 [17-28]	2.64 [2.48-3.23]	4.11
L8 δ 1	0.30 [0.25-0.42]	35 [28-41]	2.33 [2.00-2.89]	3.98
L8 δ 2	0.30 [0.20-0.38]	41 [36-46]	2.69 [2.28-3.67]	3.89
T17	0.97 [0.92-1.04]	45 [40-51]	2.40 [2.28-2.55]	3.82

(*) The values of τ_R^{quad} are given for reference only. The value $\tau_R=4.05$ ns is used in the LS-2 model.

Table S2: Dynamic parameters extracted from methyl ^2H relaxation data (protein L, 5°C) using either the LS-2 or the LS-3 models.

LS-2	S_f^2	τ_f (ps)	τ_R^{quad} (ns) (*)	
V2 γ 2	0.72 [0.70-0.74]	48 [45-55]	8.65	
T3	0.96 [0.92-1.00]	61 [56-78]	8.60	
I4 γ	0.92 [0.90-0.93]	41 [36-44]	8.37	
A6	0.91 [0.85-0.96]	94 [82-121]	8.13	
I9 δ	0.43 [0.42-0.43]	28 [25-31]	7.60	
I9 γ	0.79 [0.77-0.83]	45 [39-52]	8.21	
A18	0.87 [0.82-0.89]	81 [74-99]	8.28	
T23	0.92 [0.86-0.97]	58 [49-80]	8.19	
A31	0.88 [0.84-0.92]	107 [103-124]	8.45	
T37	0.88 [0.85-0.91]	67 [62-73]	8.65	
L38 δ 2	0.57 [0.52-0.59]	59 [55-74]	8.01	
V47 γ 1	0.68 [0.65-0.71]	69 [65-73]	7.60	
V47 γ 2	0.77 [0.67-0.84]	121 [103-156]	8.51	
V49 γ 1	0.82 [0.80-0.85]	41 [28-45]	8.44	
V49 γ 2	0.74 [0.72-0.77]	46 [43-49]	8.37	
A50	0.90 [0.88-0.93]	33 [30-42]	7.69	
T55	1.11 [1.05-1.16]	84 [75-95]	8.62	
L56 δ 2	0.72 [0.66-0.76]	53 [43-58]	7.70	
I58 δ	0.64 [0.62-0.66]	21 [18-30]	8.60	
I58 γ	0.88 [0.85-0.90]	37 [34-49]	7.52	
A61	0.68 [0.65-0.70]	59 [53-71]	7.56	
LS-3	S_f^2	τ_f (ps)	τ_c^{eff} (ns)	τ_R^{quad} (ns)
I4 δ	0.63 [0.25-0.71]	30 [24-66]	4.94 [4.24-10.09]	7.82
L8 δ 1	0.31 [0.09-0.38]	57 [51-70]	5.02 [4.28-17.95]	8.00
L8 δ 2	0.37 [0.24-0.49]	62 [53-69]	4.63 [3.57-6.85]	7.54
T17	0.90 [0.46-1.03]	84 [72-98]	5.75 [5.09-11.45]	7.53

(*) The values of τ_R^{quad} are given for reference only. The value $\tau_R=8.01$ ns is used in the LS-2 model.