Influence of Antifreeze Proteins on the Ice/Water Interface

Guido Todde,[†] Sven Hovmöller,[†] and Aatto Laaksonen[*†‡¶]

[†]*Department of Material and Environmental Chemistry, Arrhenius Laboratory, Stockholm University, 10691 Stockholm, Sweden,*
[‡]*Science for Life Laboratory, 17121 Solna, Sweden , and*
[¶]*Stellenbosch Institute of Advanced Study (STIAS), Wallenberg Research Centre at Stellenbosch University, 7600 Stellenbosch, South Africa*

[*]e-mail: aatto@mmk.su.se

*to whom correspondence should be addressed

Supporting Information Available

The Supporting Information contain the diffusion profiles of all ice/water (S1), sfAFP/ice/water (S2), wfAFP/ice/water systems (S3) and ubiquitin/ice/water (S4); a plot of the center of mass movement of sfAFP (S5), wfAFP (S6) and ubiquitin (S7) with respect to the axis perpendicular to the ice/water interface.

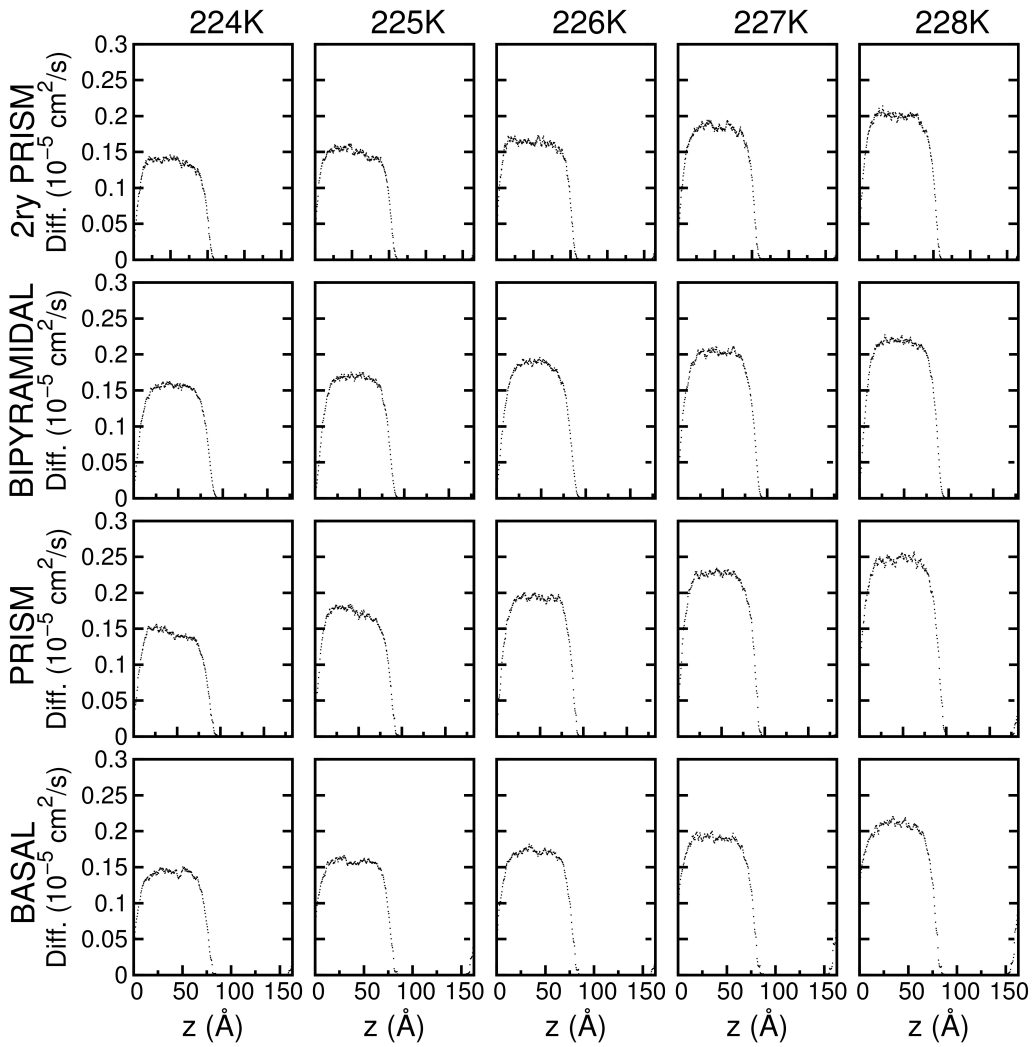

Figure S1: Diffusion profile of the ice/water systems at different temperatures for the different ice planes.

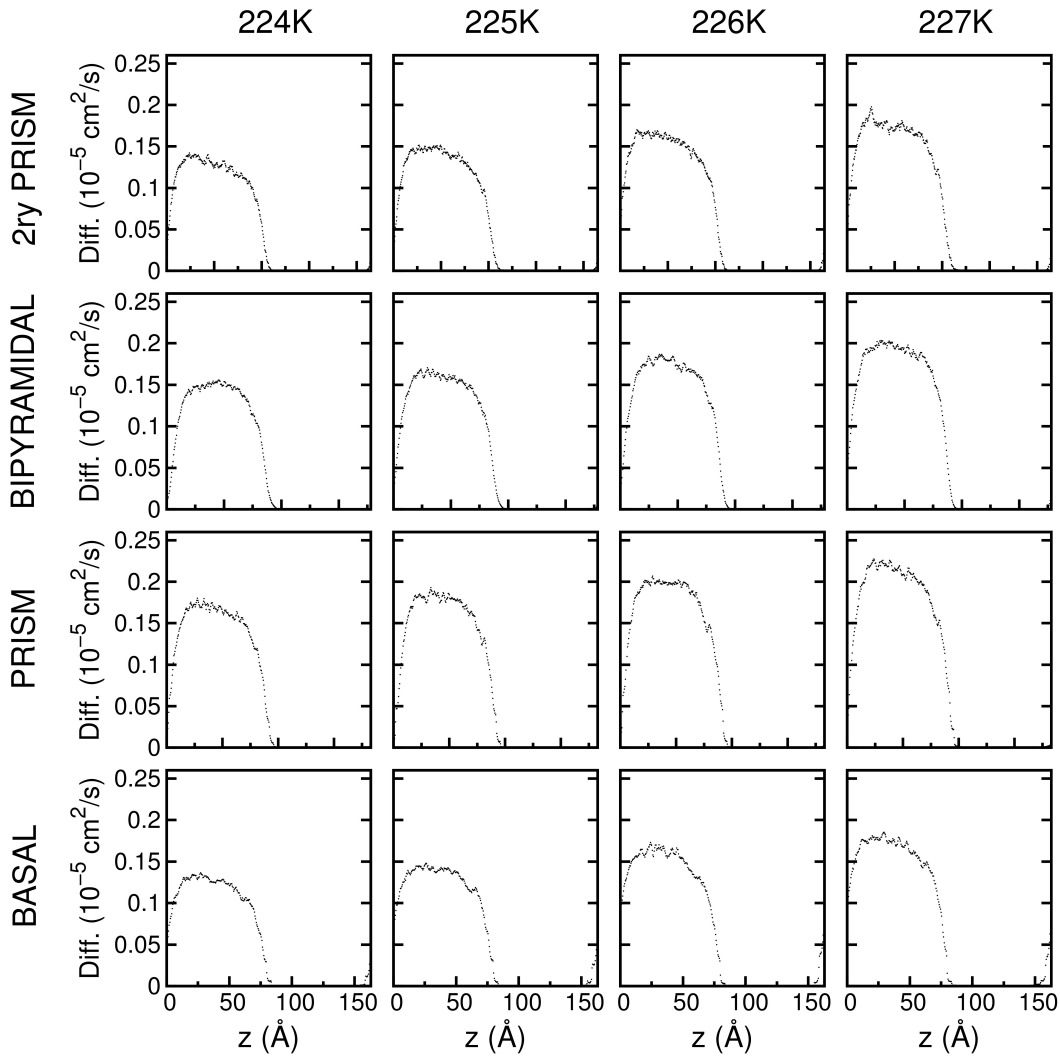

Figure S2: Diffusion profile of the ice/water systems at different temperatures with the sfAFP attached onto the different ice planes.

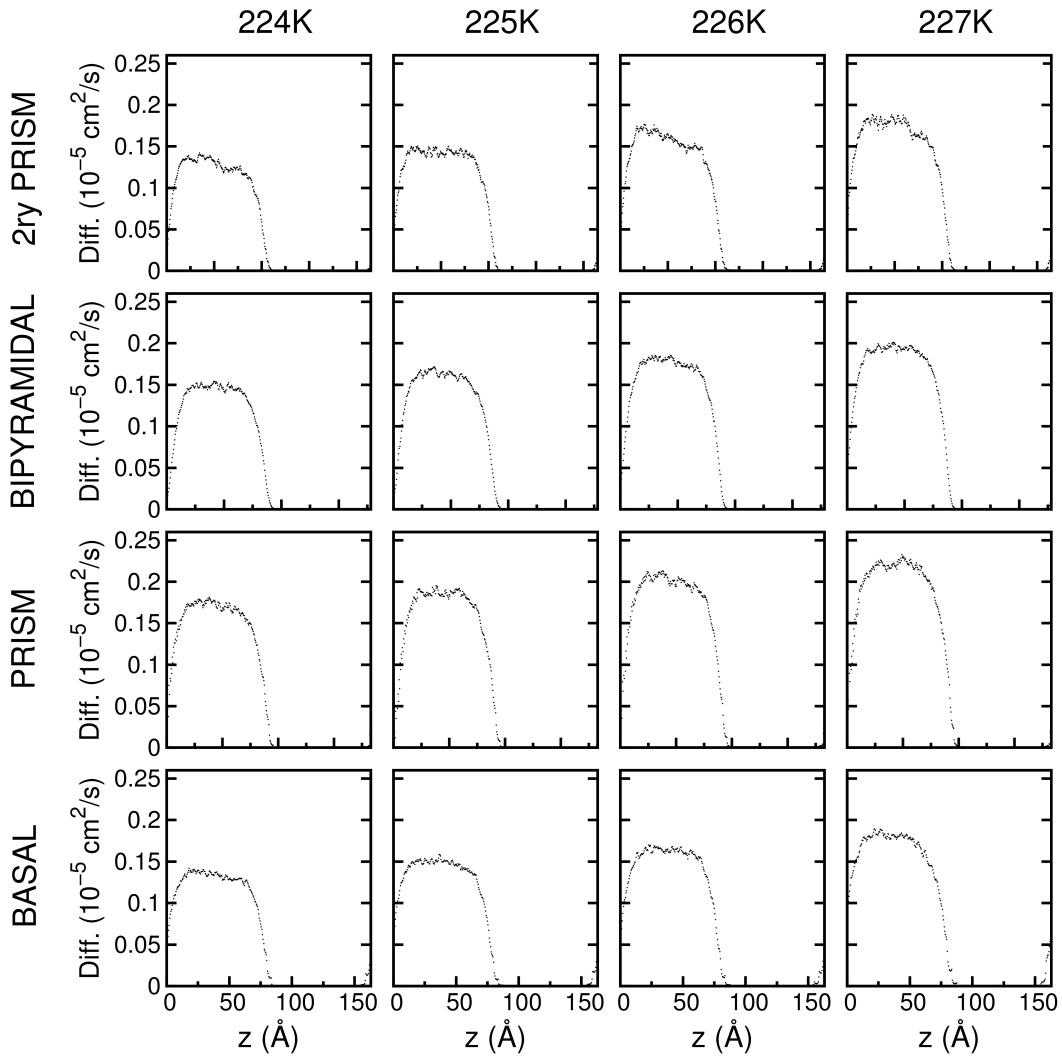

Figure S3: Diffusion profile of the ice/water systems at different temperatures with the wfAFP attached onto the different ice planes.

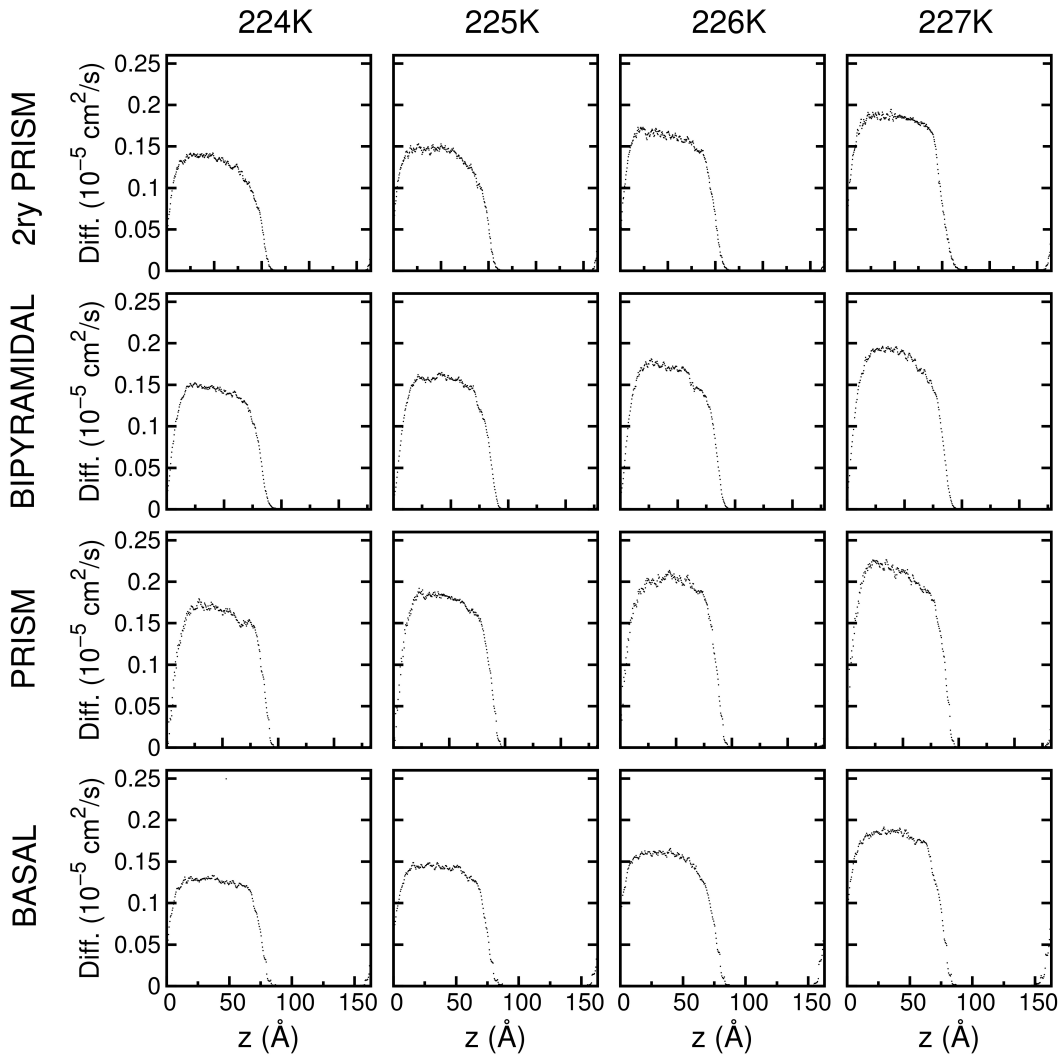

Figure S4: Diffusion profile of the ice/water systems at different temperatures with the ubiquitin attached onto the different ice planes.

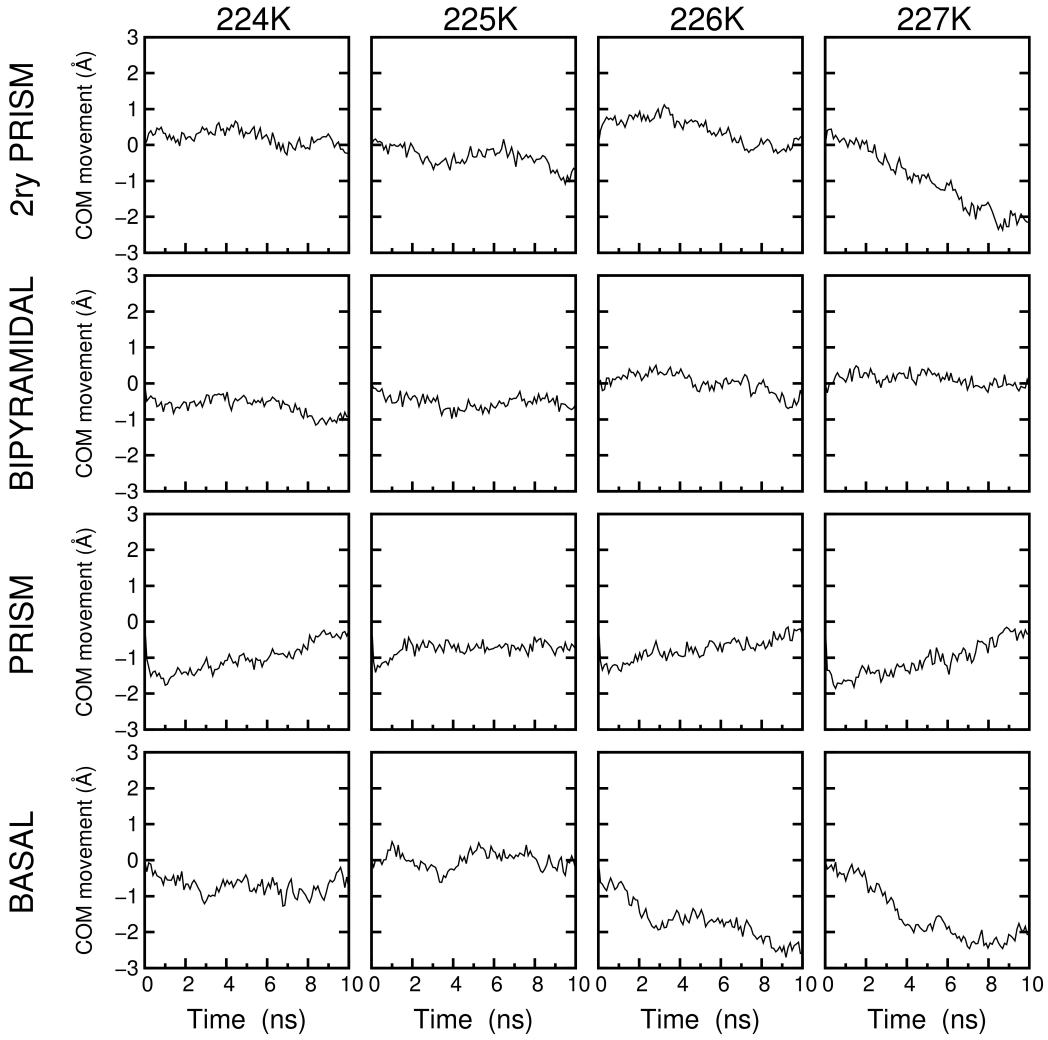

Figure S5: Center of mass movements with respect to axis perpendicular to the ice/water interface of the sfAFP/ice/water systems.

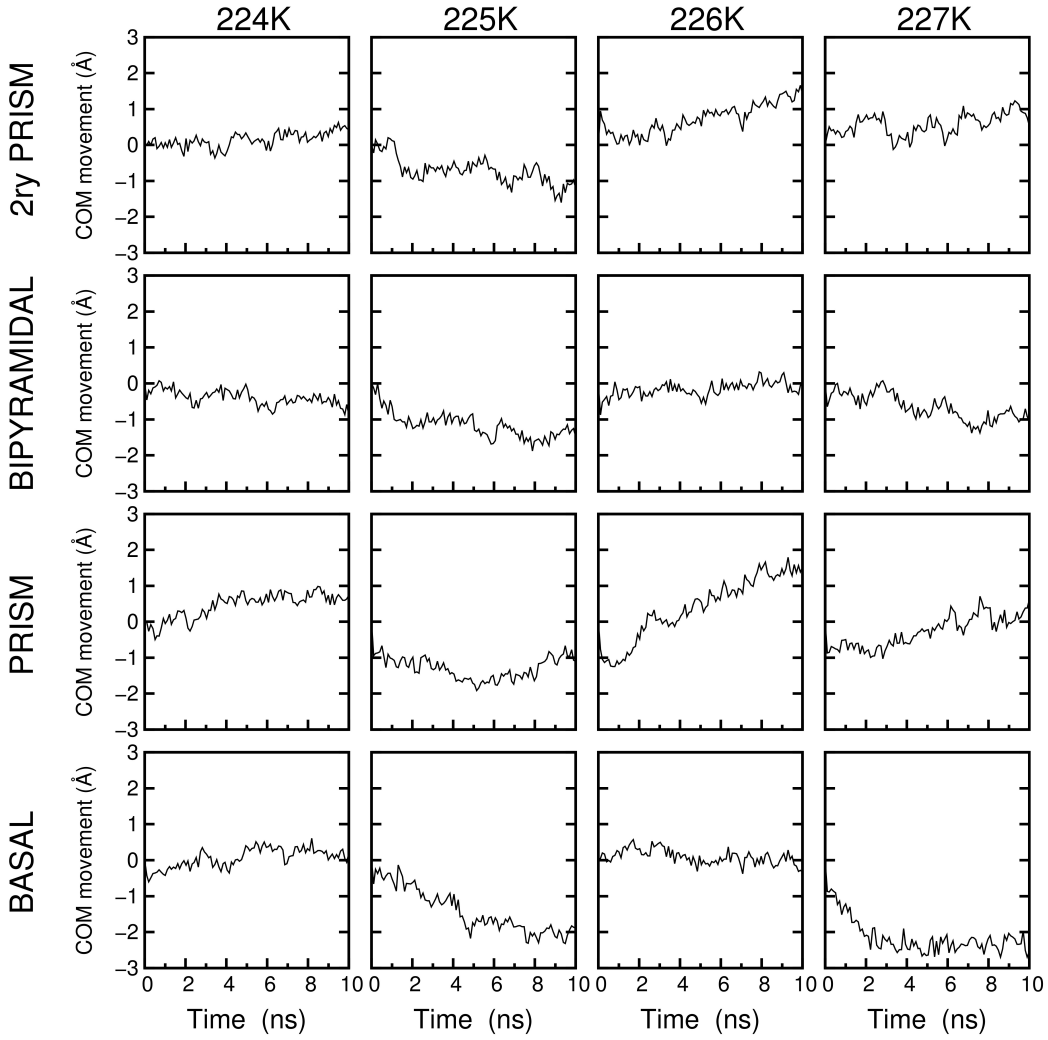

Figure S6: Center of mass movements with respect to axis perpendicular to the ice/water interface of the wfAFP/ice/water systems.

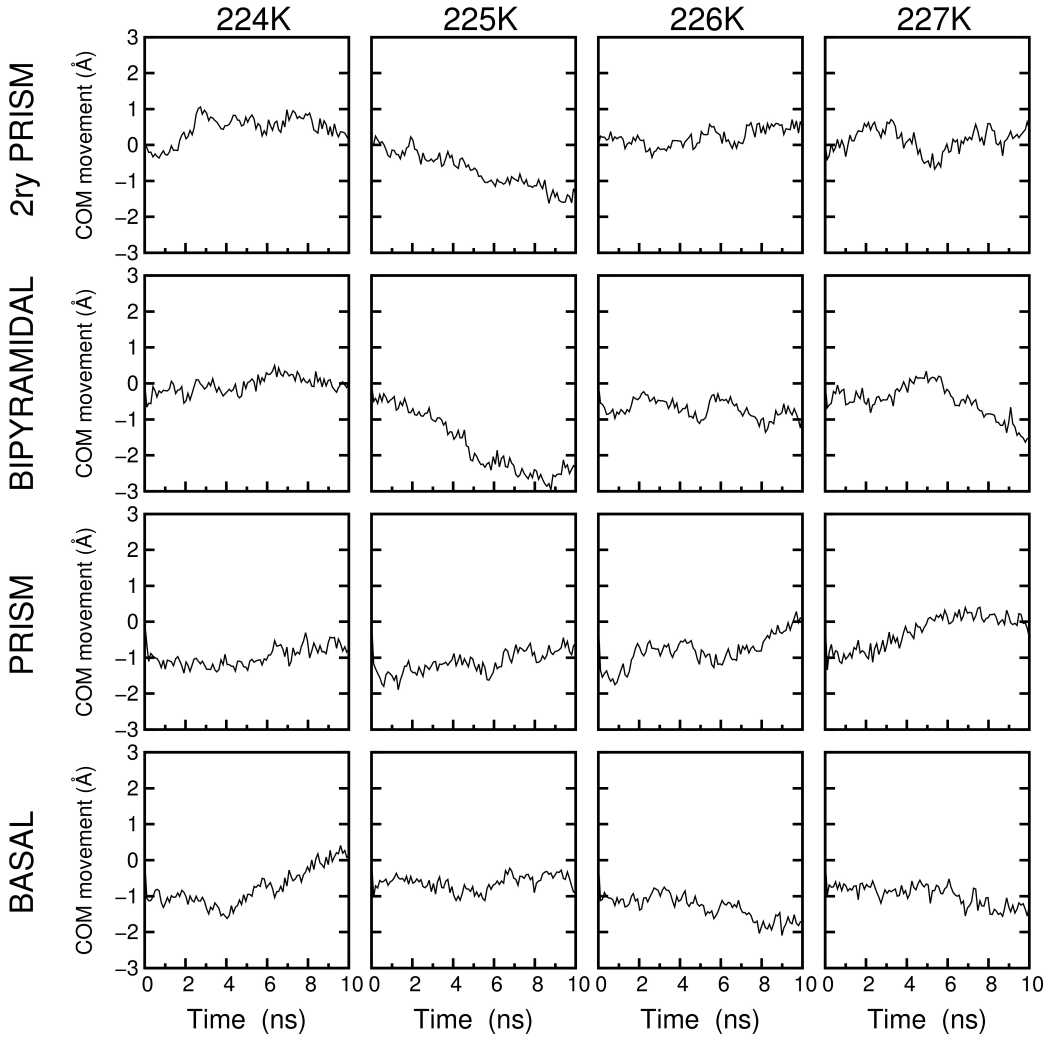

Figure S7: Center of mass movements with respect to axis perpendicular to the ice/water interface of the ubiquitin/ice/water systems.