

Supporting information for:
On the Possibility of Facilitated Diffusion of
Dendrimers Along DNA

Emel Ficici and Ioan Andricioaei*

Department of Chemistry, University of California, Irvine, CA 92697

E-mail: andricio@uci.edu

*To whom correspondence should be addressed

NMR order parameters (S^2) for dendrimer N-H bonds at various dendrimer positions around DNA, as specified by pseudo dihedral angle values (ϕ), are shown in Figures *S2* – *S7* for systems *r25*, *r35*, and *r45*, respectively. Color coding is based on dendrimer generation (See Figure 8(a) in the main article). S^2 values calculated from equilibrium expression (Figures *S3*, *S5*, and *S7*) and from the tail values of N-H bond autocorrelation functions (Figures *S2*, *S4*, and *S6*) are given below. Sample autocorrelation functions for select residues can be seen in Figure *S1*.

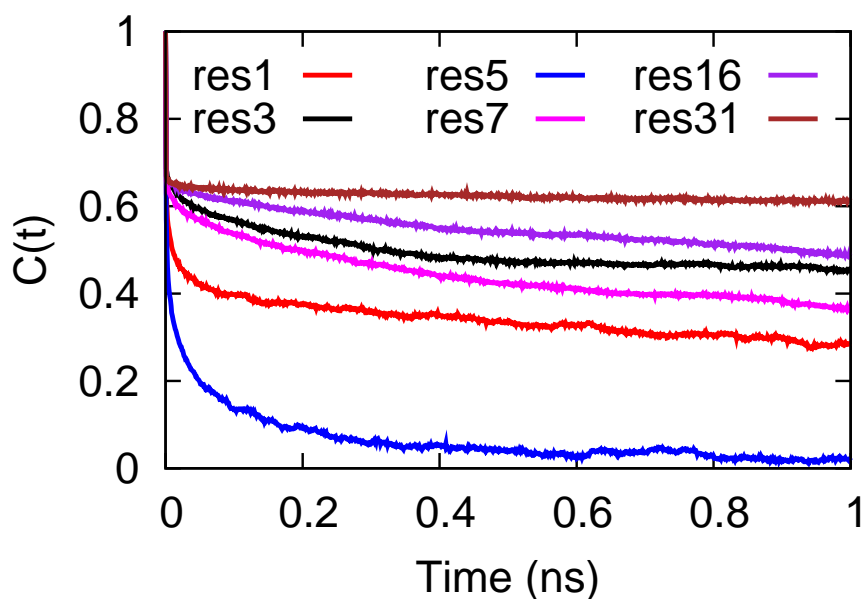


Figure S1: Sample correlation functions.

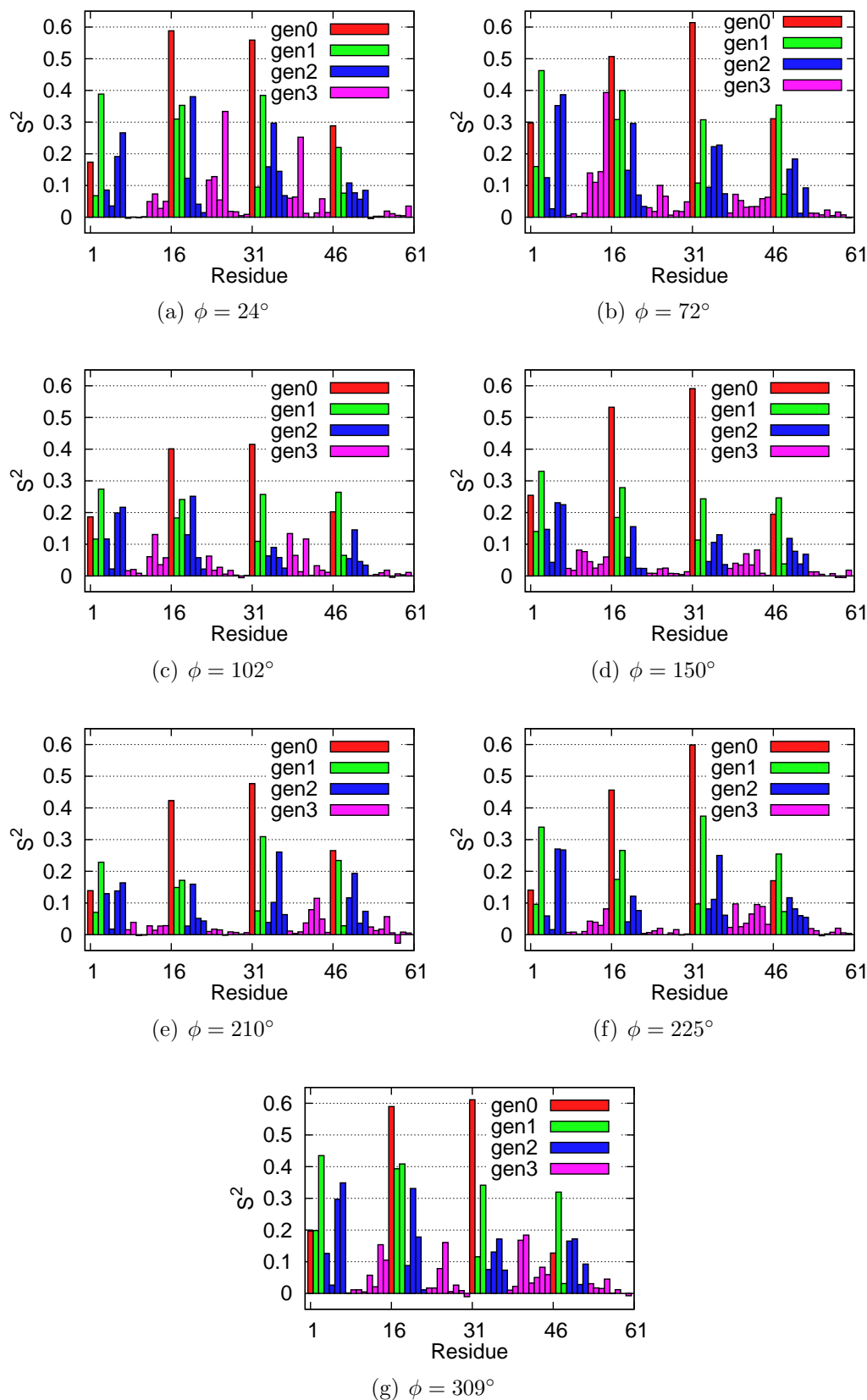


Figure S2: S^2 values as calculated from the tail of autocorrelation functions for system $r25$.

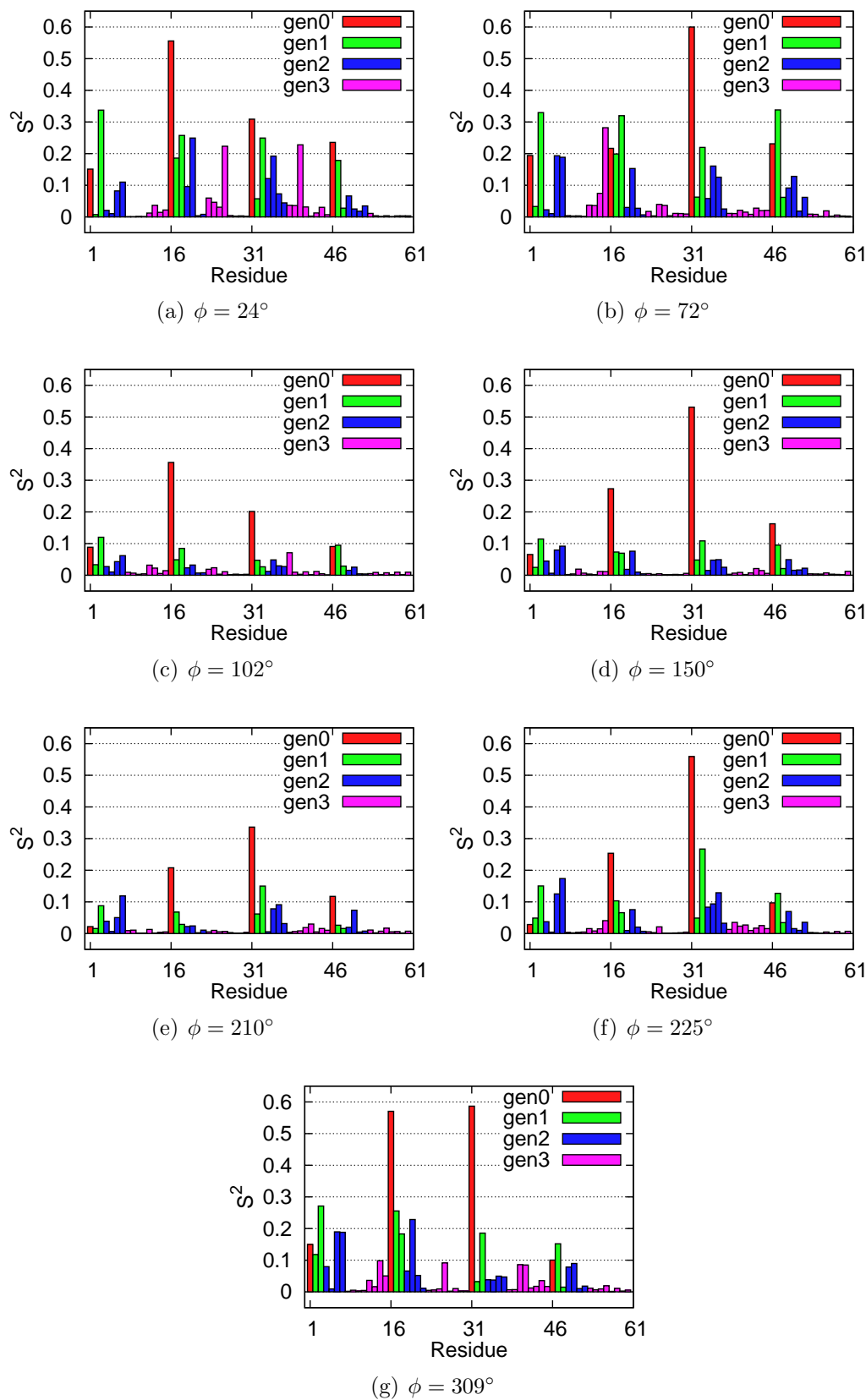


Figure S3: S^2 values as calculated from the equilibrium expression for system $r25$.

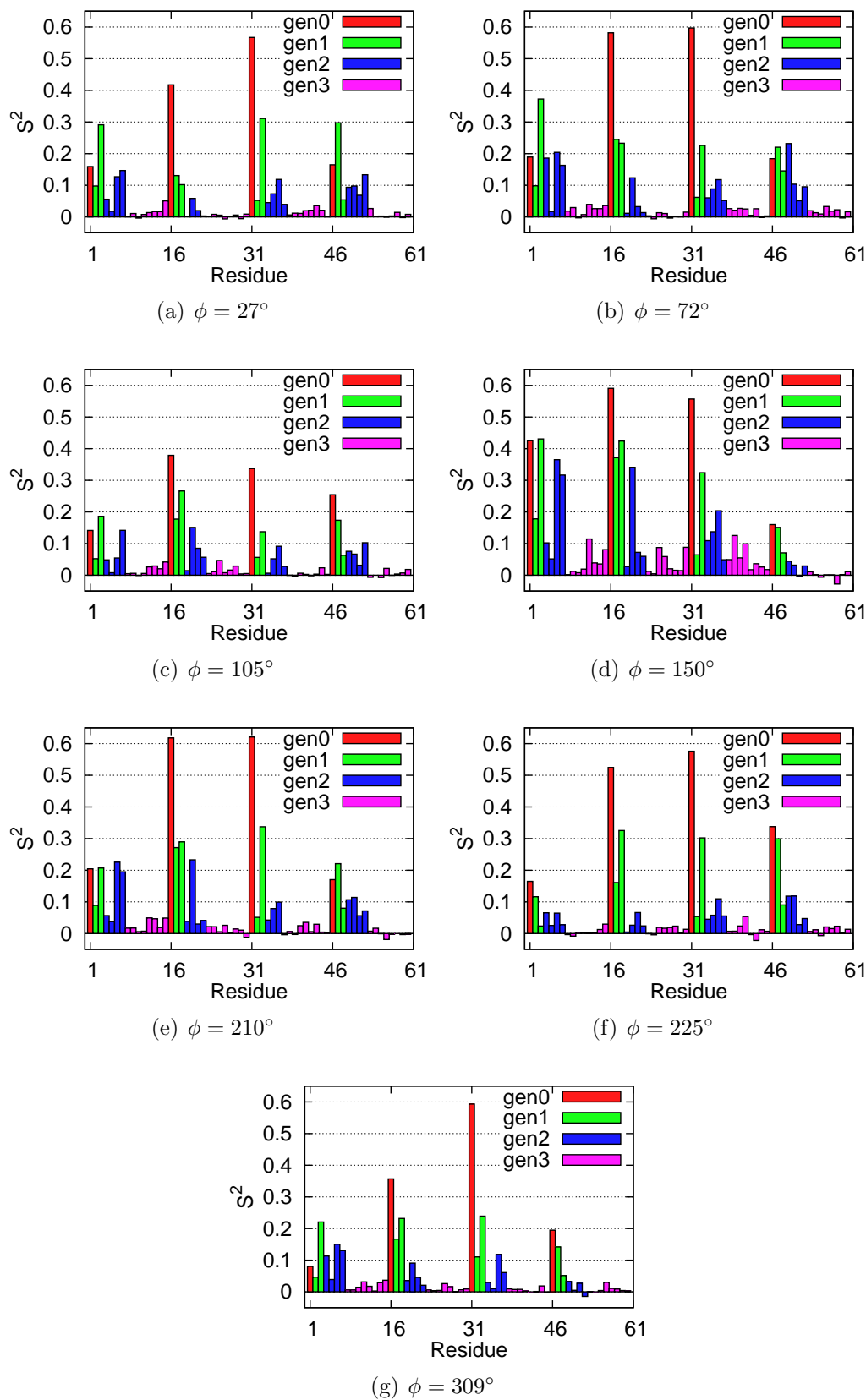


Figure S4: S^2 values as calculated from the tail of autocorrelation functions for system $r35$.

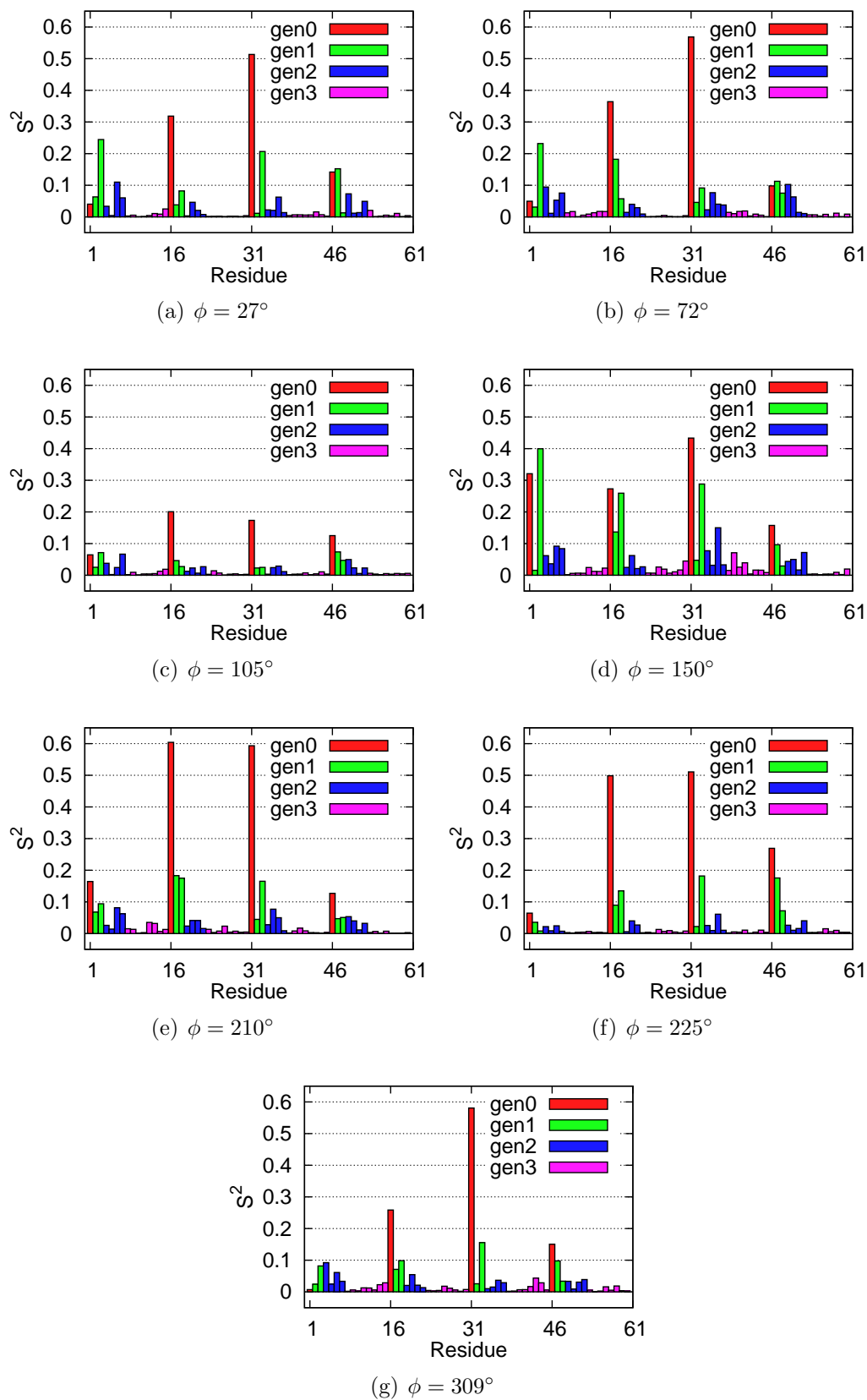


Figure S5: S^2 values as calculated from the equilibrium expression for system $r35$.

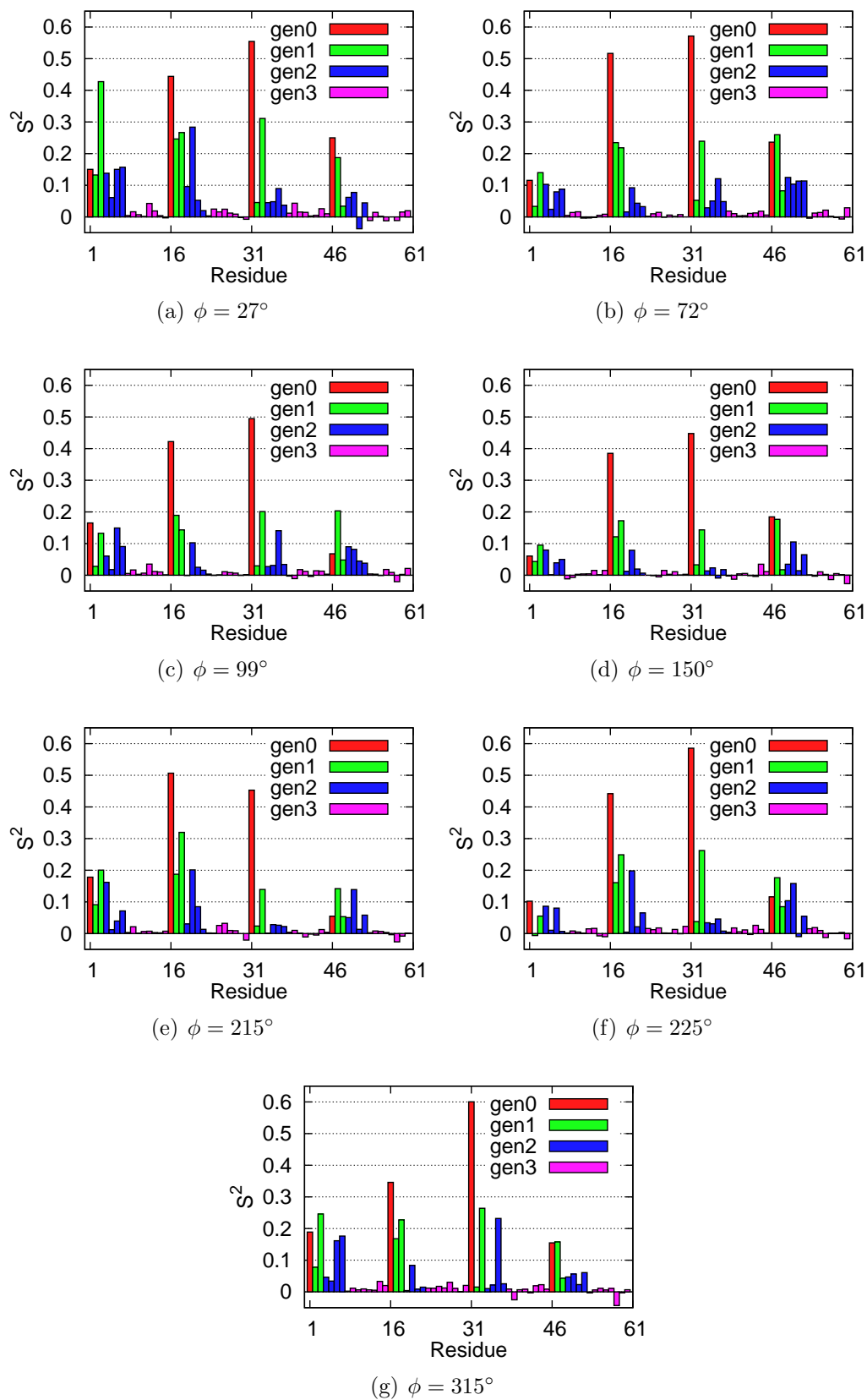


Figure S6: S^2 values as calculated from the tail of autocorrelation functions for system $r45$.

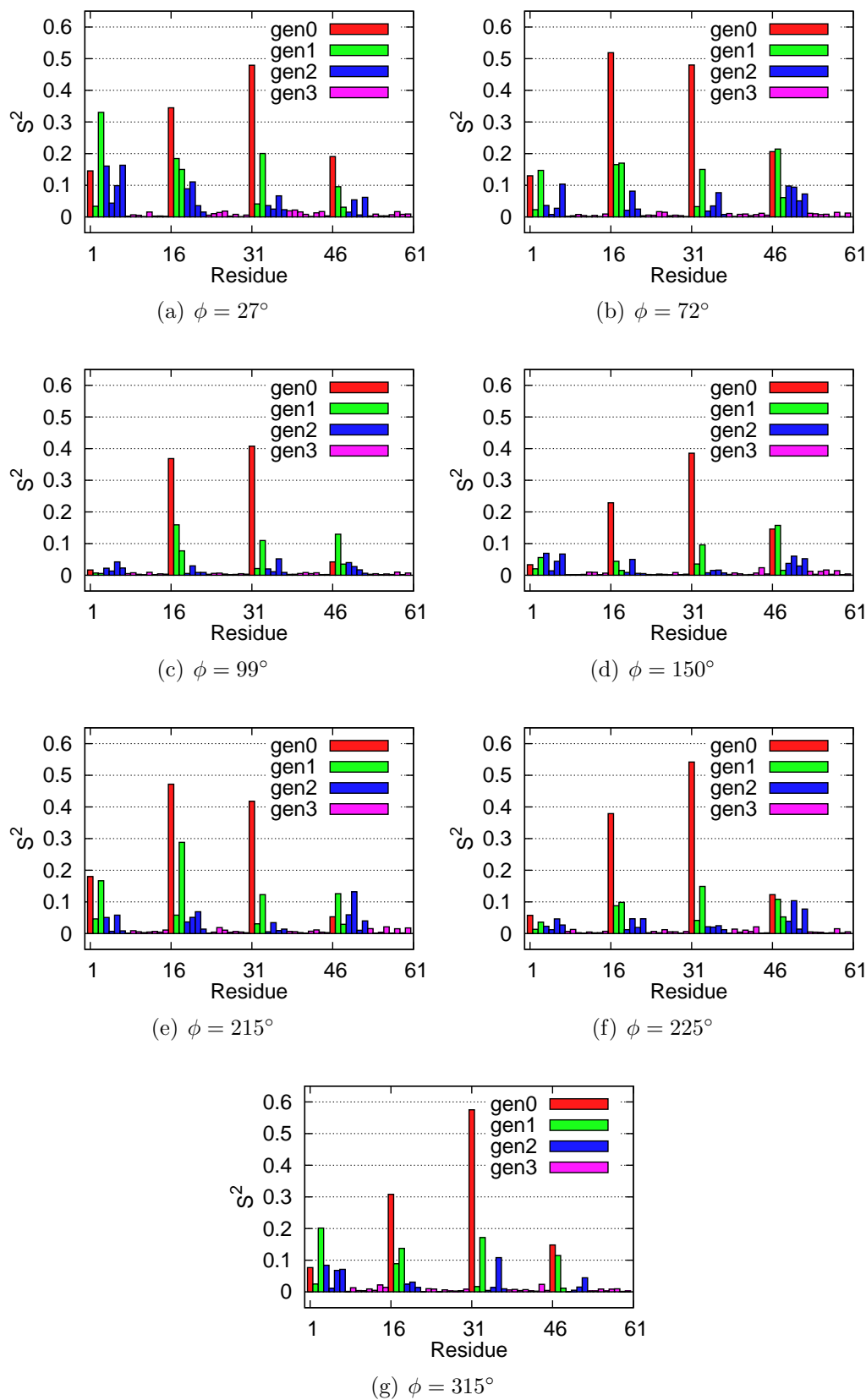


Figure S7: S^2 values as calculated from the equilibrium expression for system *r45*.