



Figure

¹H NMR spectra (500MHz, 1:1 CDCl₃-CD₃CN) of a solution containing equimolar (23 mM) quantities of (*E*)-3, DB24C8 and benzil, illustrating the formation of rotaxane (*Z*)-4. The spectra portrayed were recorded after (a) 0 min, (b) 2 min, (c) 9.5 min and (d) 17.5 min UV irradiation, respectively. The concentrations of four splices were determined by the integrations of signals, A-D.

◆: (*E*)-3, ■: (*Z*)-3, ▲: (*E*)-4, ×: (*Z*)-4