



Figure

^1H NMR spectra (500MHz, $\text{d}_6\text{-DMSO}$) of a solution containing equimolar (16 mM) quantities of (*Z*)-4 and benzophenone, illustrating the dissociation of rotaxane (*Z*)-4. The spectra portrayed were recorded after (a) 0 min, (b) 12 min, (c) 60 min and (d) 120 min UV irradiation, respectively. The concentrations of three species were determined by the integrations of signals, A-C.

◆: (*Z*)-4, ■: (*E*)-3, ▲: (*Z*)-3, ●: DB24C8