**Supplementary Material (ESI)**

**PROBING THE MOLECULAR ORIENTATION OF CHEMICALLY POLYMERIZED POLYTHIOPHENE-POLYROTAXANE VIA SOLID STATE NMR**

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**Figure S1:** 2D 1H-1H double-quantum (DQ) MAS NMR spectrum of polythiophene polyrotaxane.



**Figure S2:** 1H-13C CP-HETCOR MAS NMR spectrum of thiophene [2]rotaxane.



**Figure S3:** 15N CPMAS NMR spectra of thiophene [2]rotaxane and polythiophene polyrotaxane