PYK - Fitted - Thinning factor 1 dnantiles Method 1.23 1.2 - bulk Relative ESS 9.0 8.0 9.0 tail Trace Pot 1.21 Rank Plot <u>ම</u> 0.8 6.0 ESS Relative I 0.2 Relative E 7:0 0.2 1.20 0.0 2000 500 1000 4000 0.6 8.0 2000 4000 1.0 0 0.2 0.6 0.2 0.0 8.0 Quantile Quantile Rank (all chains) Total number of draws PYK - Fitted - Thinning factor 10 dnantiles 1.0 Method 1.24 1.2 • bulk Relative ESS 9.0 6.1 9.0 6.1 1.23 Lace Dot 1.22 1.21 🗕 tail Rank Plot ව<u>්</u> 0.8 6.0 ESS Relative 0.2 1.20 0.2 0.0 0.0 1000 2000 500 4000 0.2 0.6 8.0 1.0 2000 8.0 1.0 0.2 0.6 4000 0 0.0 0.4 0.0 0.4 0 Rank (all chains) Quantile Quantile Total number of draws PYK - Fitted - Thinning factor 100 1.6 dnantiles Method 1.2 • bulk 1.4 Relative ESS 9.0 8.0 9.4 • tail 1.2 9.0 1.0 0.8 Rank Plot 8.0 وَ 6.0 ESS Relative 2.0 4 0.6 0.2 0.0+ 0.0 0.4 500 1000 2000 8.0 4000 0.2 4000 0.2 8.0 1.0 0.6 2000 0.4 1.0 0 0.0 0.6 Quantile Quantile Rank (all chains) Total number of draws PYK - Fitted - Thinning factor 1000 small intervals 0.1 8.0 1.23 dnantiles 1.0 Method 1.2 • bulk Tace Pot 1.21 Rank Plot Relative ESS for 8.0 Relative ESS for s 0 0 0 0 0 00 0 0 0 0 0.6 0.2 0.2 1.20 0.0 + 0.0 0.0 1000 2000 500 4000 0.4 0.6 Quantile 0.4 0.6 Quantile 2000 0.2 8.0 1.0 0.2 8.0 1.0 4000 0.4 0 0.0 Total number of draws Rank (all chains)

PYK - Fitted - Thinning factor 1 ESS for small intervals 0 0 0 0 1 4 9 8 0 1 2 4 dnantiles Method 1.2 1.16 - bulk Relative ESS 9.0 6.1 9.0 6.1 tail Lace 1.12 Rank Plot <u>ව</u> 0.8 6.0 ESS Relative I 1.10 Relative I 0.2 1.08 0.0 1000 2000 500 4000 8.0 2000 4000 0 0.6 1.0 0.2 8.0 0.6 0.0 Rank (all chains) Quantile Quantile Total number of draws PYK - Fitted - Thinning factor 10 dnantiles 1.0 Method 1.20 1.2 • bulk 1.18 **→** tail Trace Plot 1.16 Rank Plot ව<u>්</u> 0.8 6.0 ESS Relative 2.0 1.12 0.2 1.10 0.0 0.0 1000 2000 500 4000 0.2 1.0 0.2 8.0 1.0 2000 4000 0.6 8.0 0.6 0 0.0 0.0 0.4 0.4 0 Rank (all chains) Quantile Quantile Total number of draws PYK - Fitted - Thinning factor 100 dnantiles Method 1.12 1.2 • bulk Relative ESS 9.0 8.0 9.4 • tail Trace Plot 1.11 Rank Plot ESS for 9.0 8.0 Relative 0.2 0.2 1.09 -0.0 + 0.0 500 1000 2000 4000 4000 0.2 8.0 2000 8.0 0.6 1.0 0 0 0.0 0.2 0.6 1.0 0.4 Rank (all chains) Quantile Quantile Total number of draws PYK - Fitted - Thinning factor 1000 dnantiles 1.0 Method 1.2 1.12 bulk Relative ESS 9.0 0.4 Trace Pot 1.11 1.10 Plot for 8.0 ESS 0.6 Relative 0.2 0.2 1.09 0.0 + 0.0 0.0 1000 2000 500 4000 0.4 0.6 Quantile 0.4 0.6 Quantile 2000 0.2 8.0 1.0 0.2 8.0 1.0 4000 0.4 0 0.0 Rank (all chains) Total number of draws

PYK - Fitted - Thinning factor 1 dnantiles Method 1.2 • bulk 1.12 Relative ESS 9.0 6.1 9.0 6.1 tail Rank Plot <u>ව</u> 0.8 6.0 ESS Relative F 1.10 Relative I 0.2 0.0 500 1000 2000 4000 0.6 0.2 0.6 8.0 2000 4000 0 1.0 0 0.2 8.0 1.0 0.0 0.0 Rank (all chains) Quantile Quantile Total number of draws PYK - Fitted - Thinning factor 10 dnantiles 1.0 Method 1.2 1.12 • bulk 🗕 tail Trace Plot 1.11 0 1.11 Rank Plot ව් 0.8 6.0 ESS Relative 2.0 1.09 0.2 0.0 0.0 2000 1000 4000 500 0.2 8.0 8.0 1.0 2000 4000 0.6 1.0 0 0.0 0.0 0.2 0 0.4 0.4 Rank (all chains) Quantile Quantile Total number of draws PYK - Fitted - Thinning factor 100 r small intervals 0.1 1.0 8.0 dnantiles Method 1.2 • bulk 1.12 • tail Trace Plot 1.11 Rank Plot ESS for 9.0 8.0 Relative ESS for S 0 0 0 0 0 0 0 0 0 0 Relative 0.2 0.2 1.09 -0.0 0.0 1000 2000 500 4000 8.0 0.2 8.0 2000 4000 0.6 1.0 0.6 1.0 0 0.0 0.2 Quantile Quantile Total number of draws Rank (all chains) PYK - Fitted - Thinning factor 1000 dnantiles 1.0 1.13 1.2 Trace Plot 1.11 ce 1 Relative ESS 9.0 6.1 9.0 6.1 Plot Rank Method 1.10 bulk 0.2 1.09 0.0 + 0.0 0.0 1000 2000 4000 0.4 0.6 Quantile 0.4 0.6 Quantile 2000 500 0.2 8.0 1.0 0.2 8.0 1.0 0.4 4000 0 0.0 Rank (all chains) Total number of draws



