Path length distributions —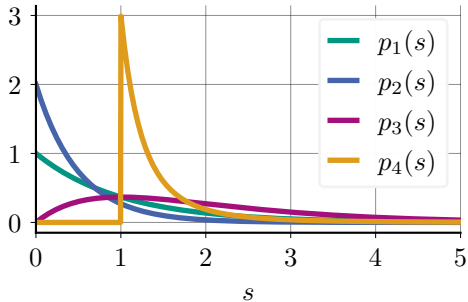 Cross-sections