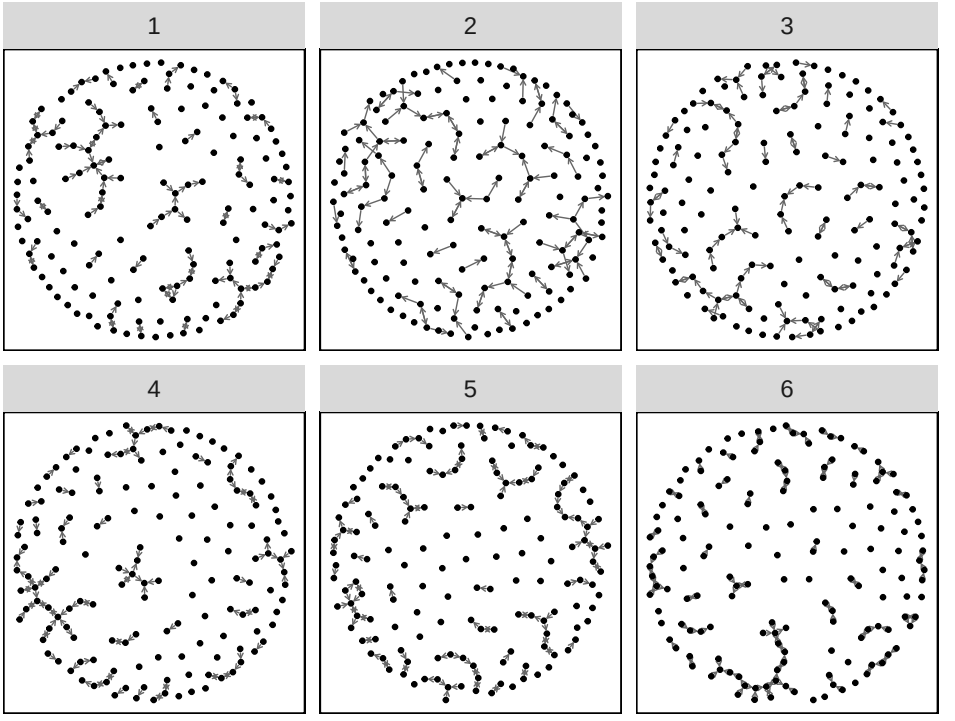jtts_neg_hard_2