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Juan Sanchez and **Noah Weiss***, 2001 Alford Park Drive, Kenosha, WI 53140. *Stayman and Four-Way Transfers in Contract Bridge*.

Contract bridge is a popular card game, and many interesting applications of probability and statistics are possible from its bidding and play-of-the-hand phase. In the bidding phase of the hand, the sequences of bidding act as a context-dependent language, and each bid can be natural or conventional. In this project, a card-dealing simulator was designed, and statistical tests were used to determine whether the Stayman and four-way transfer conventions usefully replace their natural bids of 2 clubs and 2 notrump respectively, following an opening of one notrump. (Received September 19, 2017)