1145-05-733   **Jonathan L Gross*** (`gross@cs.columbia.edu`), 86 Rittenhouse Circle, Newtown, PA 18940, **Toufik Mansour** (`tmansour@univ.haifa.ac.il`), 3498838 Haifa, PA, Israel, and **Thomas W Tucker** (`ttucker@colgate.edu`), Hamilton, NY 13346. *Partial Duals of Oriented Embeddings.*

We explore Chmutov's construction of *partial duality* as a topic of independent interest. Our perspective is largely that of rotation systems and permutations. As our main result, we derive a formula for the genus of a partial dual of an embedding, which is related to a problem posed by Moffatt. We use the main formula to calculate the *partial-dual genus polynomials* for a couple of infinite sequences of embedded graphs. (Received September 13, 2018)