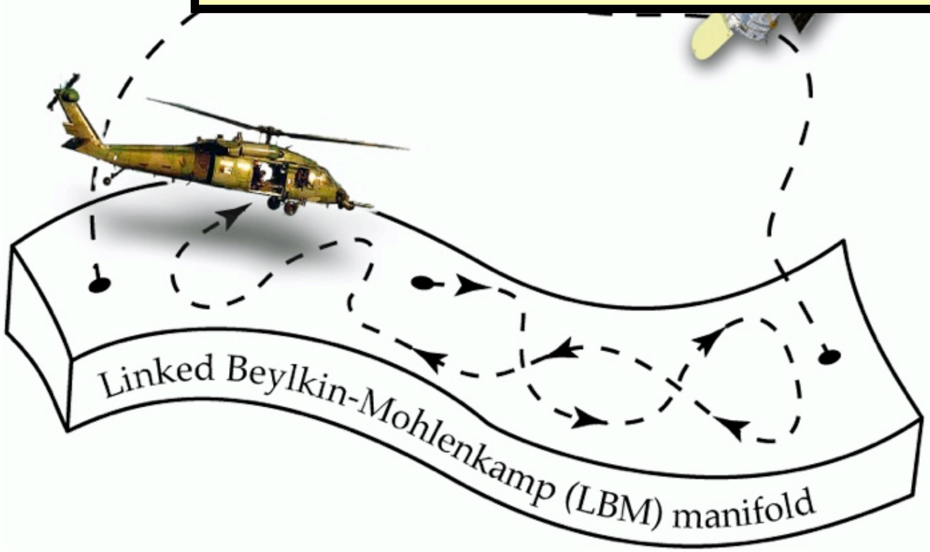
Q5: Are we confident that quantum spin microscopy will work?

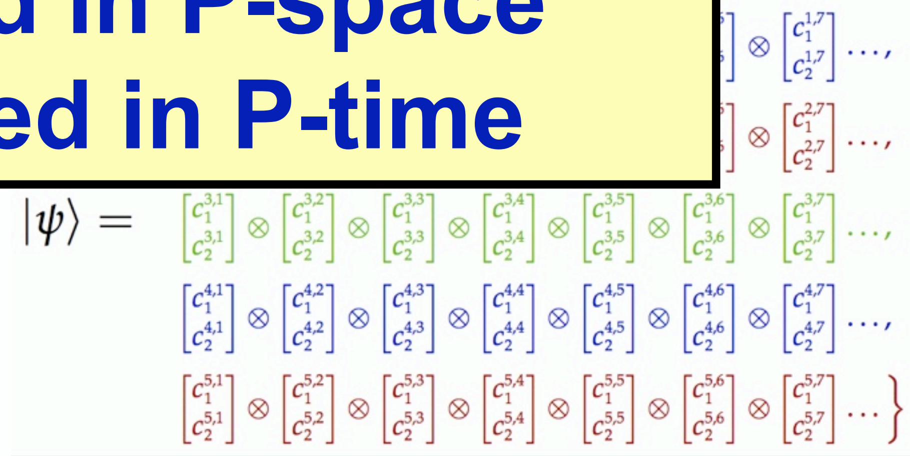
A5: Product-sum representations provide a vital QMOR technique

ALGORITHMS FOR NUMERICAL ANALYSIS IN HIGH DIMENSIONS*

GREGORY BEYLKIN† AND MARTIN J. MOHLENKAMP‡

Quantum MOR is efficient: compressed trajectories can be stored in P-space and computed in P-time





- **Separated representations provide a "JPEG format" for compressing quantum state trajectories**
- **They efficiently compress all Hilbert states *except* the high-rank states employed in quantum computation**
- **They are well-suited to quantum system engineering**