

# Roles and Views — D. Z. Anderson

## Role in Q.C.:

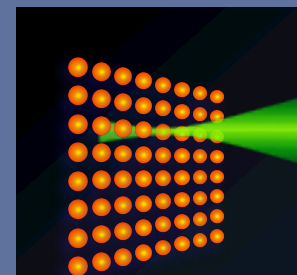
- At JILA, developed cold atom transport system for reloading atoms lost from the qubit array in collaboration with M. Saffman under the UWM AQuA-64 projected funded by the IARPA MQCO program.
- Drove several technology advancements such as high optical quality vacuum cells in collaboration with SRI Sarnoff Labs and ColdQuanta Inc.\* (As part of the AQuA-64 project).

## Views on Q. C.

- Have closely followed the global attention to quantum, particularly the UK and European quantum initiatives.
- A strong believer in the need to establish quantum computing infrastructure and to cultivate the industrial supply chain.
- NSF should consider its strategic role in QC in the light of the world's activity, particularly within the US private industry.

\*In accordance with the Univ. of Colorado's policies on conflict of interest I hereby disclose that I have a financial interest in ColdQuanta Inc. —D.Z. Anderson

Atoms lost from a qubit array need to be replaced by optically transporting atoms from a reservoir of laser cooled atoms.



High optical quality ultra-high vacuum compatible hexagonal cell for neutral atom quantum computing developed under IARPA MQCO program.



Ion chip trap vacuum packaging system currently under development at ColdQuanta Inc., in collaboration with Duke University and U. Maryland under IARPA LOGIQ program.