



Quantum Technologies Group  
Advanced Engineering and Sciences  
ITT Corporation

- Lead Investigator: Marco Lanzagorta, Ph.D.
- Frequent collaborators from Naval Research Laboratory, Harvard University, and the University of Missouri.



- Areas of interest in Quantum Information (QI):
  - Algebraic Structure of QI.
  - New Mathematical Representations of QI.
  - Analysis of QI devices in noisy environments.
  - Quantum Sensing and Communications.
  - Quantum Algorithms.
  - Quantum Effects in Biological Environments.
- Main thrust: theoretical analysis of the origin, structure, availability and feasibility of those resources that are needed to perform QI processing in realistic environments.



# ITT

- ITT Corporation performs R&D on a wide variety of technologies related to sensors, communications, information processing, cryptology, and electronic warfare.
- Extensive experience in technology transition.
  - ITT Corporation produces and manufactures these systems, which are currently deployed by DoD on a variety of weapons systems and platforms.
- The ITT team has broad expertise on several theoretical aspects of QI.



# ITT

- We would like to collaborate with other companies or universities on a challenging research topic with aggressive technical goals.
- We would like to join a team with experimental expertise and capabilities.
- Or with a theory group to complement our capabilities.



# Contact Information

Marco Lanzagorta

Director, Quantum Technologies Group

Advanced Engineering & Sciences

ITT Corporation

Marco.Lanzagorta@itt.com

(703) 682 - 6780

<http://aes.itt.com/>