Frank Marsiglio
Theory: Electron Correlations and Superconductivity

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RESEARCH KEYWORDS: Condensed Matter Physics,
Theoretical/Computational Physics

R&D CAPABILITIES

Modelling of metals and superconductors. Modelling of interactions in a metal and how they affect transport properties.

TECHNIQUES & INSTRUMENTATION SERVICES

Lots of Mathematics, and lots of Computer Calculations, including simulations, and equation (linear and non-linear) solving.

EXAMPLES OF EXPERIMENTAL COLLABORATIONS:

- TeraHz conductivity in nanoparticles (with Profs. Rick Sydora and Frank Hegmann, U of Alberta Physics)
- Refractometric sensing using fluorescent-core microcapillaries (with Prof. Al Meldrum, U of Alberta Physics)

REPRESENTATIVE PUBLICATIONS: