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Prof. Berggren is a Professor of Electrical Engineering at Massachusetts Institute of Technology, Department of Electrical Engineering and Computer Science, where he heads the Quantum Nanostructures and Nanofabrication Group. He is also Director of the Nanostructures Laboratory in the Research Laboratory of Electronics and is a core faculty member in the Microsystems Technology Laboratory (MTL). From December of 1996 to September of 2003, Prof. Berggren served as a staff member at MIT Lincoln Laboratory in Lexington, Massachusetts, and from 2010 to 2011, was on sabbatical at the Technical University of Delft.

His current research focuses on methods of nanofabrication, especially applied to superconductive quantum circuits, photodetectors, high-speed superconductive electronics, and energy systems. His thesis work focused on nanolithographic methods using neutral atoms.

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Keywords

nanoscale fabrication methods, nanoscale quantum devices, superconductive quantum computing, evolvable hardware, nanoscale infrared single-photon detectors, quantum-mechanical circuits

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- 09.18.2014
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- 02.17.2014
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- 06.08.2012
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