

## **Waterloo Maple makes major software donation to Perimeter Institute for Theoretical Physics**

### **Scientists gain access to powerful mathematical research software**

**WATERLOO, CANADA, February 1, 2002**— Waterloo Maple, a world leader in mathematical software for education, research and industry, announced today the donation of a perpetual software license of its flagship Maple product to Perimeter Institute for Theoretical Physics. The license, which is worth over \$130,000 per year, will allow all permanent and visiting scientists at the Institute to use Maple software for advanced analysis and sophisticated mathematical programming. The donation also includes services, such as training and premium technical support.

Maple software is based on techniques pioneered at the University of Waterloo, called symbolic computation, which replicates human mathematical operations in advanced algebra, calculus and other areas, on a computer. Scientists who use Maple software are given the freedom to focus on the intellectual concepts of their work, rather than spending days on the error-prone hand manipulations of advanced mathematics. Maple has been widely adopted by the research community throughout the world for over 10 years. The global impact of Maple on advanced mathematics is analogous to the impact that the calculator has had on day-to-day arithmetic.

Dr. Howard Burton, Executive Director of Perimeter Institute, states, “Physics and mathematics are inseparable. Maple software will be an essential tool to help our scientists work through some of the most challenging theoretical problems that exist.”

Dr. Tom Lee, Vice President of Marketing for Waterloo Maple, adds, “This donation will help us as much as it helps the Institute. These outstanding scientists will truly put our products to the test and ultimately help us generate stronger software innovations. We are very fortunate to have an institute of this caliber right in our neighborhood.”

The donation is expected to establish strong ties between the Institute and Waterloo Maple and will reinforce the Waterloo region’s emerging image as a world center of advanced mathematics. Combined with the University of Waterloo, the region boasts one of the highest concentrations of experts in key areas of pure and applied mathematics.

This donation continues Waterloo Maple’s history of support for leading research. Other partner organizations include the world-renowned Mathematical Sciences Research Institute (MSRI) of the University of California, Berkeley; the Ontario Research Centre for Computer Algebra (ORRCA, a joint initiative between the University of Western Ontario, and the University of Waterloo); the Swiss Federal Institute of Technology (ETH); the French National Institute for Research in Computer Science and Control (INRIA) in France; and Moscow State University.

#### **About Perimeter Institute**

Perimeter Institute for Theoretical Physics is dedicated to addressing foundational issues in theoretical physics. Initial research areas include quantum gravity, string theory and quantum

## News Release

information theory, which lie at the heart of some of the deepest contemporary questions we can ask about the nature of the universe. The Institute was founded in October 2000 following an unprecedented \$100 million donation from Dr. Mike Lazaridis, President and Co-CEO of the highly successful Waterloo-based high-tech firm Research In Motion (RIM). Two other RIM executives, Doug Fregin and Jim Balsillie, contributed an additional \$10 million each, bringing the total amount pledged to \$120 million. Research operations began in temporary quarters in October 2001 with the hiring of three long-term researchers and four postdoctoral fellows. An innovative new building will be constructed by spring of 2003. Over the next five to seven years the Institute is expected to expand to about 40 resident scientists, making it the largest institute of its kind in the world. With researchers of the highest caliber the world has to offer, a strong network of associate members and a very active international visitor program, the Institute aspires to be one of the world's premier destinations for foundational theoretical physics research. For more information visit [www.perimeterinstitute.com](http://www.perimeterinstitute.com).

### **About Waterloo Maple**

Founded in 1988, Waterloo Maple is a world leader in mathematical and analytical software. The Maple system embodies advanced technology such as symbolic computation, infinite precision numerics, innovative Web connectivity and a powerful language for solving a wide range of mathematical problems encountered in modeling and simulation. Over a million users have adopted Waterloo Maple products as their preferred platform for exploring and managing complex problems in engineering, science, mathematics and technical education. Virtually every major university and research institute in the world, including MIT, Stanford, Oxford and Waterloo, has adopted Maple to enhance their education and research activities. Waterloo Maple's industrial customer base includes Nortel, Raytheon, Boeing, and DaimlerChrysler. For more information see [www.maplesoft.com](http://www.maplesoft.com).

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