

## D-Wave

"The quest for a quantum computer has been a long-sought goal of research since the results of Deutsch, Shor and Grover proved that such machine would be able to solve problems that are extremely hard to solve using classical computers. However this goal has remained elusive, due to the difficulty of controlling and measuring quantum systems. Recently, the Canadian company D-Wave has released a product and controversially claimed it to use quantum physics to solve a particular instance of a hard-to-solve problem, the ground state of the Ising model. In this talk we will describe the operation D-Wave quantum computer, and present recent research results on its performance and quantum behavior."

Gustavo Villares, Marc Serra Garcia