

*The One-day Conference on  
Graph Theory, May 10, 2012, IPM, Tehran, Iran*

## **Hamiltonicity of Graphs on Surfaces**

**Kenta Ozeki**

*National Institute of Informatics*

*Japan*

Tutte proved that every 4-connected plane graph has a hamiltonian cycle. Beginning with Tutte's result, many researchers have considered Hamiltonicity of graphs on non-spherical surfaces. In particular, we are interested in a famous conjecture by Grünbaum and Nash-Williams; every 4-connected graph on the torus has a hamiltonian cycle. In this talk, we will mention recent results around this conjecture.

This is a joint work with K. Kawarabayashi (National Institute of Informatics, Japan).