1069-47-293 **Alexander Gordon*** (aygordon@uncc.edu), aygordon@uncc.edu, and **Jason Holt**, **Ari Laptev** and **Stanislav Molchanov**. *On the Simon-Spencer Theorem.*

In the talk, a simple proof will be outlined of the following version of the fundamental result of Simon and Spencer: Let $H = -d^2/dx^2 + V(x)$ be a 1-D Schrödinger operator on the half-axis with boundary condition $y(0)\cos\alpha - y'(0)\sin\alpha = 0$. Suppose that $\sup_{x\geq 0}\int_x^{x+1} v_-(t)dt < \infty$ and $\sup_{x\geq 0}\int_x^{x+1} v(t)dt = \infty$. Then H has no absolutely continuous spectrum. (Received January 25, 2011)