1072-53-154 **Timothy Nguyen*** (timothyn@math.mit.edu). *Lagrangians from Seiberg-Witten theory.*

We discuss how boundary values of the space of solutions to the Seiberg-Witten equations, both on compact 3-manifolds and on 3-manifolds with cylindrical ends, yield Lagrangian submanifolds within the corresponding boundary configuration space. In the case of cylindrical ends, this construction provides a Lagrangian correspondence between the vortex moduli spaces at infinity. As an application, we discuss work in progress for supplying the analytic details of Donaldson's TQFT proof of the Seiberg-Witten invariants of a closed 3-manifold. (Received June 26, 2011)