

# Electrodynamics Midterm Review

March 2, 2014

## **Main topics:**

1. Electrostatic Green functions
2. Electromagnetic energy and momentum
3. Plane electromagnetic waves
4. Reflection and refraction of plane waves at an interface
5. Dispersion: frequency dependence of the dielectric constant
6. Waveguides and resonant cavities

**The test will be open book, and you may use my notes**