1099-35-148 **Leonid Friedlander\*** (friedlan@math.arizona.edu), Department of Mathematics, University of Arizona, Tucson, AZ 85721. Asymptotics of the Steklov eigenvalues.

Let  $\Omega$  be a bounded planar domain with a smooth boundary  $\Gamma$ . We consider the following problem:  $(-\Delta + \mu^2)u = 0$  in  $\Omega$ ;  $(\partial u/\partial \mathbf{n})u = \nu u$  on  $\Gamma$ . Here  $\mathbf{n}$  is the outward unit normal vector to  $\Gamma$ ,  $\mu$  is a parameter, and  $\nu$  is the spectral parameter, Let  $\nu_k(\mu)$  be the k-th eigenvalue of the problem. We derive asymptotics of  $\nu_k(\mu)$  as  $\mu \to \infty$ . (Received February 05, 2014)