FARADAY CAGE PROBLEM

2013

trapezoidal rule analogy

June 2013 –

search for literature

Feb 2014

numerical solution (Mikhlin method)

May 2014

homogenized model (multiple scales)

Sept 2014

point charges model (energy min.)

2013

Working with Weideman on a long review paper for SIAM Review on the periodic trapezoidal quadrature rule. First numerical computations.

The trapezoidal rule review paper is submitted in August with a section on the Faraday cage that misses the point. A merciful referee suggests removing it. The revised paper appears a year later, with no mention of Faraday.

Return to the problem during sabbatical in Geneva Jan-April. Hewett gets involved.


Many talks and discussions in US/Canada and UK/Europe.

Paper accepted subject to minor revisions 26 Jan 2015; revised paper accepted 13 Feb.