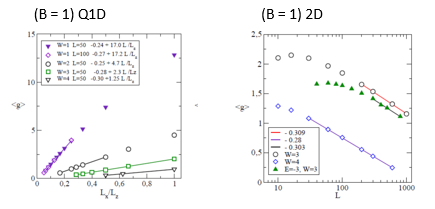
**Numerical WL Results**

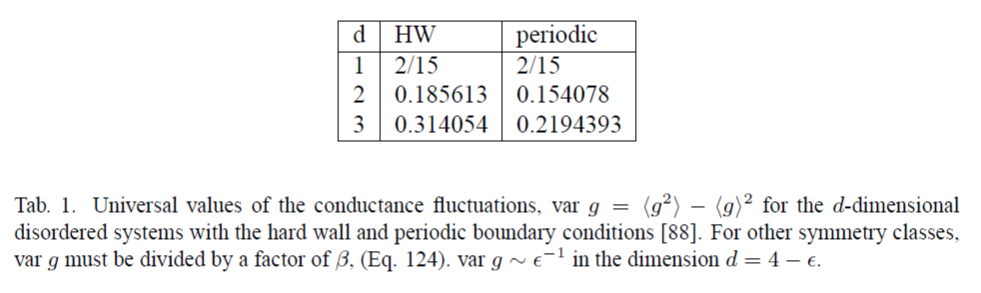
**Conductance Average**

First let’s look at weak localization corrections to the conductivity. For these we plot g vs. L, but can’t extend L too far because then we’ll be in the exponentially damped region. The semi-classical formulas predicted a universal intercept for the Q1D conductance, and a universal slope dg/dlnL for the 2D conductance. NLσM, DMPK predict an intercept of about -1/3, and something predicts slope of about -1/3 too.



**Conductance variance**

Q1D conductors have well known variance <g>2 = 2/15β. What about 2D, 3D conductors? I thought 3D was same as Q1D for weak disorder. But plots below seem to suggest otherwise? According to Markos…



Markos also says that the UCF values depend on the system’s boundary conditions (Hard Wall, Periodic Wall)…? So then it’d seem that a generalization of DMPK would have to take boundary conditions into account, at least in the conducting regime? And these values are a little off from P. Lee’s result quoted earlier.

