



*LIGO Laboratory / LIGO Scientific Collaboration*

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**MATLAB OMC SUS Model**

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## 1 Introduction

The purpose of this document is to serve as an accompaniment to the zip file of the same LIGO DCC number to explain what is in that zip file. The zip file contains all the MATLAB files necessary to run the MATLAB double pendulum model of the OMC SUS which has been installed at LLO as part of eLIGO. In particular the parameter file doublep.m has been edited to contain the parameters which match the LLO OMC SUS. The parameter set, mode frequencies and transfer functions derived using this model can be found in T080104-00-R.

For those unfamiliar with running these files, the starting place is the help file ahelp\_rev12.m

For further information contact Norna Robertson.