

Theory CANADA 4 Conference
Conférence Théorie CANADA 4
4-7 June/Juin, 2008

Time Dependence and Holography in $c=1$ the Matrix Model

Joanna KARCZMAREK
Department of Physics and Astronomy
University of British Columbia
6224 Agricultural Road
Vancouver, British Columbia V6T 1Z1
CANADA

joanna@phas.ubc.ca

Abstract

The $c=1$ matrix model offers a holographic description of two dimensional Liouville string theory. Certain time dependent solutions in the matrix model are naturally described using a time variable which runs over a finite period, leading to the possibility of space-like past and future boundaries in the string theory background. With this alteration in the boundary structure, holography needs to be reevaluated and it becomes important to understand bulk processes from their boundary (holographic) description.