



Theoretical Physics Karlstad University

Jonas Björnsson

Partikeldagarna 2007, Chalmers

2007-09-20

New Building



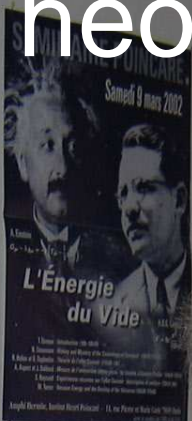
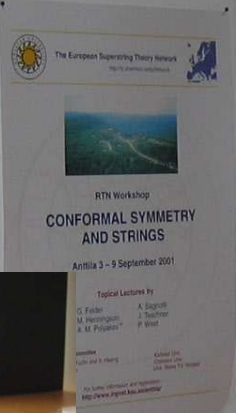
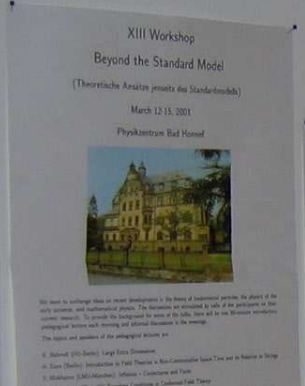
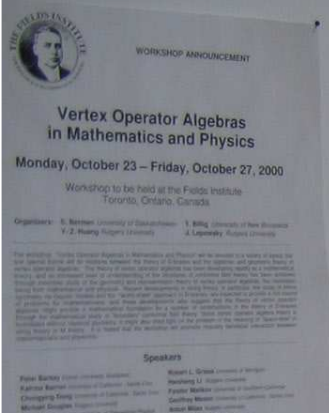
Building 21



Conformal Field Theory



Jürgen Fuchs

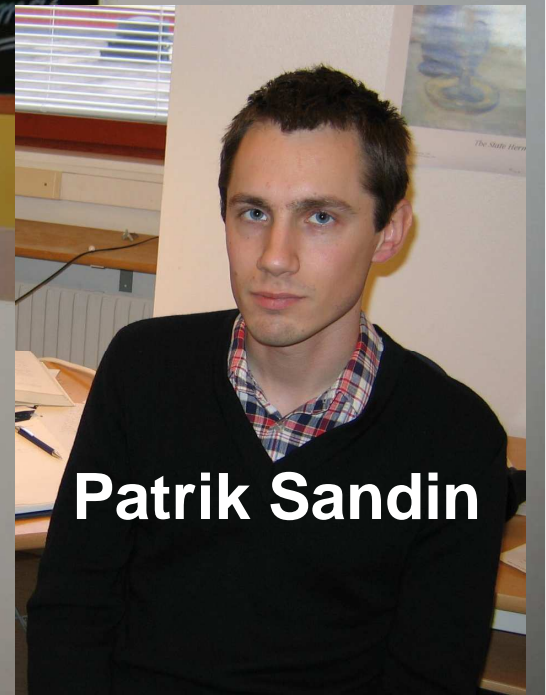


Carl Stigner

Gravity

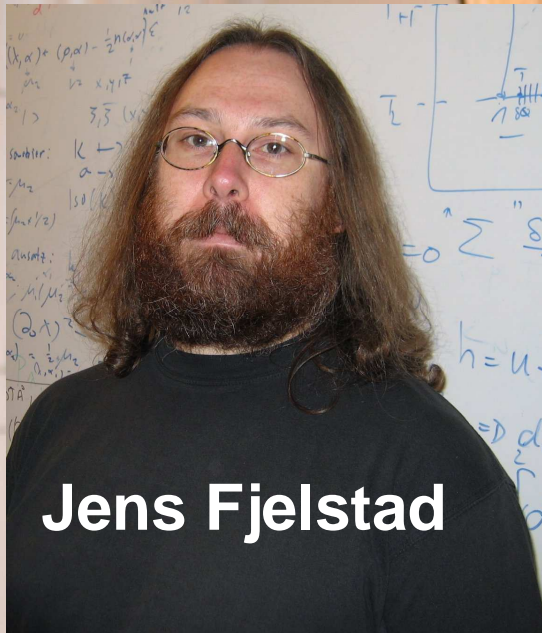


Claes Uggla



Patrik Sandin

String Theory



Jens Fjelstad



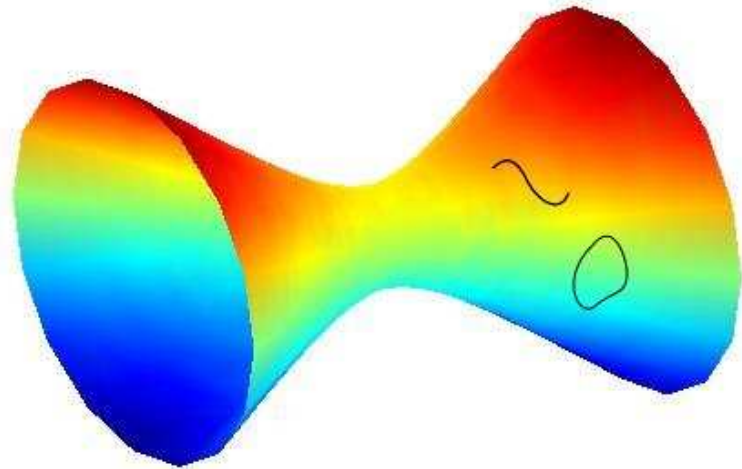
Stephen Hwang



Jonas Björnsson

Strings on non-compact manifolds

- Compact Spaces
- Non-compact Spaces
- AdS/CFT



Strings on G/H'

G = Non-compact Lie group

H = Maximal compact subgroup

$H = H' \otimes U(1)$

State space is connected to representations of $\hat{\mathfrak{g}}$

Properties:

Compact time

Non-trivial Unitarity