Home > ETDS > DISSERTATIONS > AAI3110473

Off-campus UMass Amherst users: To download dissertations, please use the following link to <u>log into</u> <u>our proxy server</u> with your UMass Amherst user name and password.

Non-UMass Amherst users, please click the view more button below to purchase a copy of this dissertation from Proquest.

(Some titles may also be available free of charge in our <u>Open Access Dissertation Collection</u>, so please check there first.)

Topics in gravity and supergravity	View More	
Hyunji Cho, University of Massachusetts - Amherst	SHARE –	

Abstract

In the first part of the thesis we study the formation of non-singular black holes in the collapse of magnetic monopoles. We employ a thin shell approximation model for a gravitating magnetic monople in which a false vacuum deSitter interior is matched to a Reissner-Nordström exterior. In the second part of the thesis we study solutions of D = 11 supergravity that correspond to *M*-branes wrapping supersymmetric cycles of Calabi-Yau manifolds. In the final chapter of the thesis we focus on the condition imposed by supersymmetry on the Kähler form of the Calabi-Yau manifold. \land

Subject Area

Physics, Elementary Particles and High Energy

Recommended Citation

Hyunji Cho, "Topics in gravity and supergravity" (January 1, 2003). Doctoral Dissertations Available from Proquest. Paper AAI3110473. http://scholarworks.umass.edu/dissertations/AAI3110473

 This page is sponsored by the <u>University Libraries.</u>

 © 2009 <u>University of Massachusetts Amherst</u>

 • <u>Site Policies</u>

Home	About	FAQ	My Account	
Enter se	earch terr	ns:		
Search				
in this repository				
Notify me via email or RSS				
Brows	e			
Collect	ions			
Discipli	Disciplines			
Author	<u>s</u>			
Author	Corner			
For Aut	thors			
Author	FAQ			
Links				
UMass	UMass Amherst Libraries			
UMass	UMass Amherst			
Contac	<u>it Us</u>			