Causality, Analyticity, and Superluminal Propagation Workshop
Monday October 13th, 2008

337 West Hall
9:00-10:30 am  COFFEE and BAGELS

340 West Hall

Chair: Ratindranath Akhoury (University of Michigan)

10:30-11:45 am  Alexander Dolgov (University of Ferrara, INFN Ferrara, Italy and ITEP, Moscow)
“Superluminal propagation and Quantum Anomalies”

11:45-1:00 pm  Tanmay Vachaspati (Case Western Reserve University)
“NEC Violations and a Time-Symmetric Cosmology”

340 West Hall

2:30-3:45 pm  Cedric Deffayet (APC-CRNS Paris)
“New Results on Spherically Symmetric Solutions of Massive Gravity”

337 West Hall
3:45-4:15 pm  COFFEE BREAK

340 West Hall

4:15-5:30 pm  Cristian Armendariz-Picon (Syracuse University)
“Producing Scale-Invariant Perturbations in a Radiation-Dominated Universe”
Causality, Analyticity, and Superluminal Propagation Workshop
Tuesday October 14th, 2008

337 West Hall
9:00-10:00 am COFFEE and BAGELS

340 West Hall

Chair: Alexander Vikman (New York University, CCPP)

10:00-11:15 am Viatcheslav Mukhanov
(Ludwig-Maximilians-University Munich, ASC)
“K-Essence”

11:15-12:30 pm Ken Olum (Tufts Institute of Cosmology)
“Superluminal travel in general relativity”

340 West Hall

2:00-3:15pm Benjamin Grinstein (UCSD)
“Acausal Yet Unitary QFT’s and the Lee-Wick O(N) Model”

337 West Hall
3:15-3:45 pm COFFEE BREAK

340 West Hall

3:45-5:00 pm Richard Woodard (University of Florida)
“Causal Effective Field Equations from the Schwinger-Keldysh Formalism”
Causality, Analyticity, and Superluminal Propagation Workshop
Wednesday October 15th, 2008

337 West Hall
9:00-11:00 am  COFFEE and BAGELS

340 West Hall

Chair: Mark Trodden
(University of Pennsylvania/Syracuse University)

11:00-12:15 pm  Holger Bech Nielsen
(Niels Bohr Institute, Blegdamsvej)
“Random Dynamics”

340 West Hall

2:00-3:15pm  Andrey Gruzinov (New York University)
“Black Holes in Scalar Field Theories”

337 West Hall
3:15-3:45 pm  COFFEE BREAK

340 West Hall

3:45-5:00 pm  Vitaly Vanchurin (University of Munich)
“Superluminal Signals in K-Essence Cosmology”
# Causality, Analyticity, and Superluminal Propagation Workshop

**Thursday October 16th, 2008**

### 337 West Hall

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00-9:30 am</td>
<td>COFFEE and BAGELS</td>
</tr>
</tbody>
</table>

### 340 West Hall

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chair: Alexander Dolgov (University of Ferrara, INFN Ferrara, Italy and ITEP, Moscow)</td>
<td></td>
</tr>
</tbody>
</table>
| 9:30-10:45 am | David Garfinkle (Oakland University)  
|             | “Gravitational Collapse in Einstein-Aether Theory” |
| 10:45-12:00 pm | Chris Gauthier (University of Michigan)  
|             | “Classical Solutions in K-Essence” |

### 340 West Hall

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
</table>
| 1:30-2:45 pm | Alexander Vikman (New York University, CCPP)  
|             | “Superluminality and Black Holes” |

### 337 West Hall

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>2:45-3:00 pm</td>
<td>COFFEE BREAK</td>
</tr>
</tbody>
</table>

### 340 West Hall

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
</table>
| 3:00-4:15 pm | Eugeny Babichev (APC Paris)  
|             | “TBA” |