

**Best-sited articles based on talks given at the Aegean Schools and  
published in the Lecture Notes in Physics**

**1st Aegean: Samos**

**Inflationary cosmology.**

[George Lazarides](#), ([Thessaloniki U.](#)) . UT-STPD-3-01, Nov 2001. 40pp.

Published in *Lect.Notes Phys.***592:351-391,2002.**

e-Print: [hep-ph/0111328](#), Cited [63 times](#)

**Brane cosmology.**

[E. Papantonopoulos](#), ([Natl. Tech. U., Athens](#)) . NTUA-02-2002, Feb 2002. 23pp.

Published in *Lect.Notes Phys.***592:458,2002.**

e-Print: [hep-th/0202044](#), Cited [37 times](#)

**2nd Aegean: Syros**

**Dark matter and dark energy.**

[Varun Sahni](#), ([IUCAA, Pune](#)) . Mar 2004. 39pp.

Published in *Lect.Notes Phys.***653:141-180,2004.**

e-Print: [astro-ph/0403324](#), Cited [390 times](#)

**3rd Aegean: Chios**

**Avoiding dark energy with  $1/r$  modifications of gravity.**

[Richard P. Woodard](#), ([Florida U.](#)) . UFIFT-QG-06-02, Jan 2006. 30pp.

Published in *Lect.Notes Phys.***720:403-433,2007.**

e-Print: [astro-ph/0601672](#), Cited [231 times](#)

**Accelerating universe: observational status and theoretical implications**

[Leandros Perivolaropoulos](#), ([Ioannina U.](#)) . Jan 2006. 30pp.

Published in *Lect.Notes Phys.***720:257-287,2007.**

e-Print: [astro-ph/0601014](#), Cited [101 times](#)

**4th Aegean: Lesbos**

**Higher order gravity theories and their black hole solutions.**

[Christos Charmousis](#), ([Orsay, LPT](#)) . LPT-08-42, May 2008. 44pp.

Published in *Lect.Notes Phys.***769:299-346,2009.**

e-Print: [arXiv:0805.0568 \[gr-qc\]](#), Cited [68 times](#)

**Black Holes at the LHC.**

[Panagiota Kanti](#), ([Ioannina U.](#)) . Feb 2008. 36pp.  
Published in *Lect.Notes Phys.***769:387-423,2009**.  
e-Print: [arXiv:0802.2218 \[hep-th\]](#), Cited [56 times](#)

**5th Aegean: Milos**

**Introduction to Holographic Superconductors.**

[Gary T. Horowitz](#), ([UC, Santa Barbara](#)) . Feb 2010. 34pp.  
Published in *Lect.Notes Phys.***828:313-344,2011**.  
e-Print: [arXiv:1002.1722 \[hep-th\]](#), Cited [208 times](#)

**Condensed matter and AdS/CFT.**

[Subir Sachdev](#), ([Harvard U., Phys. Dept.](#)) . Feb 2010. 39pp.  
Published in *Lect.Notes Phys.***828:273-309,2011**.  
e-Print: [arXiv:1002.2947 \[hep-th\]](#), Cited [90 times](#)