

Holographic Duality In Condensed Matter Physics

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Holographic Duality In Condensed Matter

"... an excellent introduction to the recently discovered "holographic duality" between gravity and condensed matter physics. It clearly explains the growing number of remarkable connections between very different areas of physics." Gary Horowitz, University of California, Santa Barbara

Holographic Duality in Condensed Matter Physics: Zaanen ...

Holographic Duality in Condensed Matter Physics - Kindle edition by Zaanen, Jan, Liu, Yan, Sun, Ya-Wen, Schalm, Koenraad. Download it once and read it on your Kindle device, PC, phones or tablets. Use features like bookmarks, note taking and highlighting while reading Holographic Duality in Condensed Matter Physics.

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HOLOGRAPHIC DUALITY IN CONDENSED MATTER PHYSICS. HOLOGRAPHIC DUALITY IN CONDENSED MATTER PHYSICS. This pioneering treatise presents how the new mathematical techniques of holographic duality unify seemingly unrelated ¶'lds of physics. Morphing quantum ¶'ld theory, gen- eral relativity and the renormalisation group into a single computational framework, this book is the ¶'rst to bring together a wide range of research in this rapidly developing ¶'ld. Set within the context of ...

HOLOGRAPHIC DUALITY IN CONDENSED MATTER PHYSICS

Condensed Matter: Abstract A pioneering treatise presenting how the new mathematical techniques of holographic duality unify seemingly unrelated fields of physics.

Holographic duality in condensed matter physics - CERN ...

The holographic part comes from the dual representation provided by the theory because the two aspects of the theory have different dimensions. One aspect has four, and the other has five: N=4 in super-Yang-mills lives in (3+1) dimensions while the dual closed-string theory lives in the (9+1)-dimensional spacetime formed by AdS 5 × s 5. [p.138]

Holographic Duality in Condensed Matter Physics ...

Preface; 1. Introduction; 2. Condensed matter: the charted territory; 3. Condensed matter: the challenges; 4. Large N field theories for holography and condensed matter; 5. The AdS/CFT correspondence as computational device: the dictionary; 6. Finite temperature magic: black holes and holographic thermodynamics; 7. Holographic hydrodynamics; 8. Finite density: the Reissner-Nordström black ...

Holographic Duality in Condensed Matter Physics - NASA/ADS

Book Release: Holographic Duality in Condensed Matter Physics The physics of black holes appears to be as far removed from the physics of electrons in metals as it can be. Now Prof. Jan Zaanen, Prof. Koenraad Schalm (both Leiden University), Dr. Yan Liu and Dr. Ya-Wen Sun (both Madrid University) have written a book presenting how the one can ...

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Holographic Duality In Condensed Matter Physics

The AdS/CFT correspondence is often described as a "holographic duality" because this relationship between the two theories is similar to the relationship between a three-dimensional object and its image as a hologram. Although a hologram is two-dimensional, it encodes information about all three dimensions of the object it represents.

AdS/CFT correspondence - Wikipedia

Holographic Duality in Condensed Matter Physics by Yan Liu, Jan Zaanen, Ya-Wen Sun and Koenraad Schalm (2015, Hardcover) The lowest-priced brand-new, unused, unopened, undamaged item in its original packaging (where packaging is applicable).

Holographic Duality in Condensed Matter Physics by Yan Liu ...

This string theory course focuses on holographic duality (also known as gauge / gravity duality or AdS / CFT) as a novel method of approaching and connecting a range of diverse subjects, including quantum gravity / black holes, QCD at extreme conditions, exotic condensed matter systems, and quantum information.

String Theory and Holographic Duality | Physics | MIT ...

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The holographic principle is a tenet of string theories and a supposed property of quantum gravity that states that the description of a volume of space can be thought of as encoded on a lower-dimensional boundary to the region—such as a light-like boundary like a gravitational horizon.First proposed by Gerard 't Hooft, it was given a precise string-theory interpretation by Leonard Susskind ...

Holographic principle - Wikipedia

INTRODUCTION. Several notable properties of condensed matter phases are defined by fundamental physical constants. The Bohr radius gives a characteristic scale of interatomic distance on the order of the angstrom, in terms of electron mass m e, charge e, and Planck constant ħ.These same fundamental constants enter the Rydberg energy, setting the scale of a characteristic bonding energy in ...

Speed of sound from fundamental physical constants ...

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Significant and ongoing progress has been made in the past couple of years in finding “holographic” avatars of central concepts from condensed matter physics. Originally developed within string theory, the holographic correspondence provides a geometrical framework for certain strongly coupled field theories, easily incorporating theories at nonzero temperature and density.

Holographic Duality and Condensed Matter Physics - KITP

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