

Computer Studies Of Phase Transitions And Critical Phenomena

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For more than 50 years, mathematicians have been searching for a rigorous way to prove that an unusually strong symmetry is universal across physical systems at the mysterious juncture where they're ...

Mathematicians Prove Symmetry of Phase Transitions

Pure quantum systems can undergo phase transitions analogous to the classical phase transition between the liquid and gaseous states of water. At the quantum level, however, the particle spins in ...

Quantum phase transition discovered in a quasi-2D system consisting purely of spins

Believe it or not, steel has something in common with bacterial appendages: they can both undergo a special type of physical transformation that remains puzzling. Now, researchers from Japan and China ...

Phase transitions lead to new advanced materials

The study marks a major step toward creating a system for studying quantum phase transitions. In 1934, physicist Eugene Wigner made a theoretical prediction based on quantum mechanics that for 87 ...

Quantum Melting of Wigner Crystals: Creating a System for Studying Quantum Phase Transitions

For the first time, physicists have experimentally observed a first-order phase transition occur in a quantum system -- verifying years of theoretical predictions. Phase transitions are something ...

For the First Time Scientists Have Observed a Quantum Phase Transition

Researchers experimentally confirmed three previously unknown phase transition phenomena in soft colloidal crystals. Knowledge of such phenomena will be useful for imparting new properties to ...

Want new advanced materials? There's a phase transition for that

Tracing the importance of the key decisions made during these transition periods, Sabina Henneberg demonstrates the importance of these decisions taken during the short phase between authoritarian ...

Managing Transition

Businesses across the country are adding job positions for new hires faster than the roles can be filled, but the wage rate depends on location. A recent study ...

El Paso new hires earn below average wages, study reports

"This is the first of four streamlined Phase 1/2 studies we plan to open over the coming months ... CDK2 drives cell cycle transitions and CDK9 regulates transcription of genes through phosphorylation ...

Cyclacel Announces Dosing of First Patient in Phase 1/2 Study of Oral Fadraciclib in Patients With Advanced Solid Tumors and Aggressive Lymphomas

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ADB shortlists SEA clean energy transition

Asian Development Bank has shortlisted 7 high calibre teams to conduct feasibility studies on Energy Transition Mechanism -- a funding vehicle to phase out coal-fired and scale up renewables in ...

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Howard Levy, M.B.B.Ch, Ph.D., M.M.M. transitions to senior clinical advisor SOUTH SAN FRANCISCO, Calif., July 14, 2021 (GLOBE NEWSWIRE) -- Catalyst Biosciences, Inc. (NASDAQ: CBIO) today announced it ...

Catalyst Biosciences Announces Key Leadership Changes in its Ongoing Transition to an Integrated Protease Medicines Company

Prime Minister Muhyiddin Yassin today said that several more states showing good progress in the fight against Covid-19 could soon join the five which have transitioned to Phase Two of the National ...

More states could move to Phase 2 of recovery plan, says PM

PETALING JAYA: The Government may need to study what type of assistance and packages that are needed to be rolled out when Malaysia transitions into phase two of the National Recovery Plan (NRP).

Govt to study financial aid package for phase 2 of NRP

In a study recently published in Nature Communications ... physical details that underpin crystalline solid-to-solid phase transitions in soft materials, and possibly how researchers can more ...

Want new advanced materials? There's a phase transition for that

(Nanowork News) Believe it or not, steel has something in common with bacterial appendages: they can both undergo a special type of physical transformation that remains puzzling. Now, researchers from ...