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A Promiscuous Intermediate Underlies Periodic Variability in the Large-Scale Elastic Instability of a Crystal Growing

1D-1D Coulomb Drag Signature of a Luttinger Liquid

A stochastic, cell-autonomous decision to express a particular transcription factor is nevertheless coordinated.

Secreting and Sensing the Same Molecule Allows Cells to Achieve Versatile Social Behaviors

H. Youk and W. A. Lim

The etiquette of yeast cells that secrete signals that influence themselves and their neighbors is explored.

Distribution of ESCRT Machinery at HIV Assembly Sites Reveals Virus Scaffolding of ESCRT Subunits

S. B. Van Engelenburg et al.

ESCRT-III proteins scaffold within assembling HIV particles to mediate viral membrane abscission.

REPORTS

Classification of Interacting Electronic Topological Insulators in Three Dimensions

C. Wang et al.

Six symmetry-protected topological phases that have no counterpart in noninteracting systems are identified.

Elastic Instability of a Crystal Growing on a Curved Surface

G. Meng et al.

Constant-background Gaussian curvature alters crystal growth and favors the formation of anisotropic, ribbon-like domains.

Rapid Soil Production and Weathering in the Southern Alps, New Zealand

I. J. Larsen et al.

Fast weathering rates in the New Zealand Alps point to a strong influence of tectonic processes on global climate.

Periodic Variability in the Large-Scale Southern Hemisphere Atmospheric Circulation

D. W. J. Thompson and E. A. Barnes

Large-scale atmospheric circulation in the Southern Hemisphere oscillates on a time scale of roughly 20 to 30 days.

A Promiscuous Intermediate Underlies the Evolution of LEAFY DNA Binding Specificity

C. Sayou et al.

Comparative and structural studies reveal how an essential plant transcription factor evolved different specificities.