

Solid-to-molecular-orientational-hexatic melting induced by local environment determined defect proliferations

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Two-dimensional (2D) melting is a fundamental research topic in condensed matter physics, which can also provide guidance on fabricating new functional materials. Nevertheless, our understanding of 2D melting is still far from being complete due to existence of possible complicate transition mechanisms and absence of effective analysis methods. Here, using Monte Carlo simulations, we investigate 2D melting of 60° rhombs which melt from two different surface-fully-coverable crystals, a complex hexagonal crystal (cHN) whose primitive cell contains three rhombs, and a simple rhombic crystal (rB) whose primitive cell contains one rhomb. The melting of both crystals shows a sequence of solid, hexatic in molecular orientation (H^{mo}), and isotropic phases which obey the Berezinskii-Kosterlitz-Thouless-Halperin-Nelson-Young (BKTHNY) theory. However, local polymorphic configuration (LPC) based analysis reveals different melting mechanisms: the cHN- H^{mo} transition is driven by the proliferation of point-like defects during which defect-associated LPCs are generated sequentially, whereas the rB- H^{mo} transition is driven by line defects where defect-associated LPCs are generated simultaneously. These differences result in the observed different solid- H^{mo} transition points which are $\phi_A = 0.812$ for the cHN- H^{mo} and $\phi_A = 0.828$ for the rB- H^{mo} . Our work will shed light on the initial-crystal-dependence of 2D melting behavior.

Keywords: two-dimensional melting, phase transition, molecular-orientational forming liquid crystal, local environment, melting mechanism

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1. Introduction

Understanding two-dimensional (2D) melting is a long-term subject in condensed matter and statistical physics.^[1,2] In late 1950s, Bernal introduced geometrical degrees of freedom to understand the entropy differences between solid and liquid phases, which has opened a door for an intuitive understanding of 2D melting.^[3,4] Afterwards, motivated by the absence of true long-range order in two dimensions,^[5] Berezinskii,^[6,7] as well as Kosterlitz, Thouless, Halperin, Nelson and Young, developed a novel theory (BKTHNY theory) for 2D melting based on the evolution of topological defects in systems,^[2,8–10] which states a two-step melting process: the unbinding of pairs of dislocations drives a continuous transition from solid to liquid crystal phase (α -atic), and subsequently, the dissociation of pairs of disclinations (i.e. single dislocations) drives the second continuous transition from liquid crystal phase to isotropic

fluid. The BKTHNY theory strongly inspires researchers to investigate 2D melting behavior.^[14–28] On the other hand, with the advances of detection and analysis techniques, other transition behaviors that the BKTHNY mechanism cannot cover have also been discovered,^[19,22,24–26,28–34] suggesting that our understanding of 2D melting is still not complete.

The melting mechanism suggested by the BKTHNY theory have been tested in different particle systems,^[2,8–10,24,28] and three types of 2D melting scenarios have been revealed up to date,^[17,19,22,26,28,35–37] which are a first-order transition directly from solid to isotropic fluid, a two-step melting with a continuous solid-to-liquid crystal transition and a first-order liquid crystal-isotropic fluid transition, and a two-step melting with continuous transitions for both solid-liquid crystal and liquid crystal-isotropic fluid. For example, both hard disks^[19,22,25] and regular polygons with an edge number $n \geq 7$ ^[28] show a two-step melting behavior including a continuous

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Proliférations C. Gagnon Fortier, 1978 *Index Medicus*, 2001 **Platelet-Rich Plasma** José Fábio Santos Duarte Lana, Maria Helena Andrade Santana, William Dias Belangero, Angela Cristina Malheiros Luzo, 2013-10-29 Platelet Rich Plasma PRP has gained tremendous popularity in recent years as a treatment option for specialties including Orthopedics Dentistry Sports Medicine Otorhinolaryngology Neurosurgery Ophthalmology Urology Vascular Cardiothoracic and Maxillofacial Surgery and Veterinarian Medicine Nowadays PRP and Stem Cell Science have added an exciting dimension to tissue repair This book begins by giving the reader a broad overview of current progress as well as a discussion of the technical aspects of preparation and therapeutic use of autologous PRP It is followed by a review of platelet structure function and major growth factors in PRP PDGF and TGF The third chapter outlines the basic principles of biochemical cellular metabolism that increases the efficacy of PRP Analogous to the preparation of soil for a garden restoring cellular health should be the first consideration in Regenerative Medicine Standardization of PRP preparation to clinical use still remains a challenging prospect In this sense a feasible strategy for studying PRP preparation is illustrated which also allows to modulate and tailor the quality of PRP for further clinical applications The science behind PRP and stem cells on tissue regeneration cell proliferation and mesenchyme stem cells are emphasized and reviewed Various specific uses of PRP are described with detailed illustrations of various personal experiences mainly in orthopedic injuries ligament and tend on repair degenerative diseases sports medicine chronic wound healing as well as rehabilitation aspects in tendinopathy Expertly written by leading scientists in the field this book provides for beginners and experienced readers scientific fundamentals the state of art of PRP specific uses and personal experiences with a practical approach and reference for current trends in use Finally this book paves the way for future developments **Proliferations: C. Gagnon Fortier** Québec (Province). Musée d'art contemporain, 1978 *Tularemia: Epidemiology, Ecology, Genomics, Immunity and Pathogenesis* Marina Santic, Anders Sjöstedt, Thomas Henry, Jiri Stulik, Max Maurin, Anders Johansson, Joseph Wayne Conlan, 2020-01-22 Tularemia is a severe anthroponozoonosis caused by *Francisella tularensis* The genus *Francisella* contains five species *F. tularensis* *F. philomiragia* *F. hispaniensis* *F. noatunensis* and *F. novicida* First described in 1911 in Tulare County California it has since been reported worldwide capable of infecting more than 250 vertebrates and invertebrate species Although it causes disease in various animal species no animal has been identified as a main reservoir of this pathogen Humans acquire infection by several routes including direct contact with infected animals ingestion of water or food contaminated by infected animals exposure to infected arthropod vectors or by inhalation of infective aerosols resulting in pneumonic oropharyngeal glandular ulceroglandular or oculoglandular tularemia The clinical presentation of human

tularemia depends on route of the infection the causative Francisella strain and the immune response of the host A live attenuated vaccine LVS has been available for more than 50 years however unlikely to become licensed in the future due to a lack of understanding of the genetic basis for its attenuation Due to the ease of its dissemination its multiple routes of infection its low dose of infection severe morbidity and high rate of mortality F tularensis subsp tularensis has been classified as a category A bioterrorism agent by the CDC Many virulence factors of F tularensis have been discovered and investigated but more in depth host pathogen interaction analyses are needed to define mechanisms of pathogenicity and virulence of this unique pathogen

Regenerative Medicine for Spine and Joint Pain Grant Cooper, Joseph Herrera, Jason Kirkbride, Zachary Perlman, 2020-04-30 Regenerative medicine RM is a rapidly expanding topic within orthopedic and spine surgery sports medicine and rehabilitation medicine In the last ten years regenerative medicine has emerged from the fringes as a complement and challenge to evidence based medicine Both clinicians and patients alike are eager to be able to offer and receive treatments that don t just surgically replace or clean old joints or inject away inflammation or work as a stop gap measure Regenerative medicine encompasses everything from the use of stem cells and platelet rich plasma PRP to prolotherapy viscosupplementation and beyond This book will provide healthcare practitioners dealing with spine and joint pain with the most current up to date evidence based information about which treatments work which treatments don t and which are on the horizon as potential game changers Chapters are arranged in a consistent format and cover the spine shoulder elbow hand and wrist hip knee and foot and ankle providing a thorough top to bottom approach A concluding chapter discusses current and future directions and applications of RM over the next decade or two Timely and forward thinking Regenerative Medicine for Spine and Joint Pain will be a concise and practical resource for orthopedists spine surgeons sports medicine specialists physical therapists and rehabilitation specialists and primary care providers looking to expand their practice

Cumulated Index Medicus ,1999

Small Animal Surgery Textbook - E-Book Theresa Welch Fossum, 2012-08-15 The fourth edition of Small Animal Surgery serves as a one stop resource for authoritative information on all aspects of small animal surgery Coverage includes basic procedures such as spays castrations and declaws as well as more advanced surgeries like craniotomy ventral slots and lung lobectomy New contributors bring a fresh perspective and discuss the latest advances in key areas such as imaging modalities regenerative medicine minimally invasive surgery and neurology Access to a companion website provides a fully searchable version of the book bi monthly content updates videos aftercare instructions case presentations and a fracture planner Well illustrated step by step instructions for surgical techniques provide quick reference to practical how to information in emergency and clinical situations Coverage of cutting edge imaging techniques including radiographs CT MRI and digital imaging explores the most useful imaging modalities for demonstrating areas of surgical concern Access to the continually updated companion website for the life of this edition includes Bi monthly content updates provide cutting edge information on surgery developments Video clips of step by step

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