

Porous Foam: Bridging High-Energy-Density Physics and Complex System Sciences

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Porous foams, composed of solid skeletons and vacuum pores, form intricate networks commonly observed in natural systems. The dynamics and pattern formation of waves and particles within these networks have become prominent topics in the study of complex systems.

Given the widespread application of porous foams in high-energy-density physics, this talk will explore their potential as a platform for investigating complex system phenomena, such as branched flows and channeling radiation, under extreme conditions.

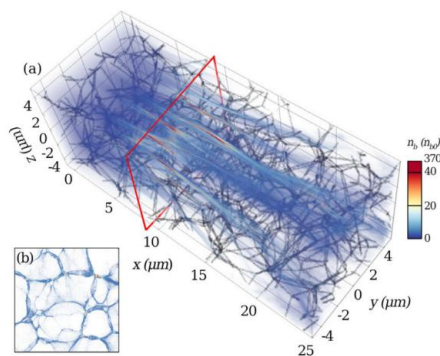


Fig.1 Branching of relativistic electron beams in porous foam.

References

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