

Re: Shake some supercooled water and you get ice, why?

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On Feb 18, 1:49 pm, "n...@xxxxxxxx" <Alien8...@xxxxxxxx> wrote:

<...>

Has the effect been seen in moving water? I mean bulk motion, even though it's intuitively apparent that supercooled water probably supports little to no internal convection currents.

If it cannot happen if the water is moving because turbulence supplies the "knock", in what sense can supercooled water be said to be liquid?

I've read part of the (long) paper. Some pages missing.

Some of Dorsey's key points seem to be that a sealed ampule of water — a given sealed ampule — has a reproducible temperature of sudden freezing, and that above that temperature the liquid is not very sensitive to agitation.

At least for some samples. That does not agree with my extensive experience with supercooled beer, which does seem to solidify given merely agitation. Though now I can't remember if that happens before you open it, which would add more variables. I see I will have to retread the rigorous experimental regime this summer. :-)

It is sometimes possible to pour supercooled water (he claims), so it is certainly liquid.

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