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Langevin approach to the theory of dielectric relaxation of ice Ih

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- 1) A new phenomenological model of the dielectric relaxation of hexagonal ice Ih was developed. This model made it possible to explain the experimentally observed complex behavior of the relaxation time and the parameter of broadening of the dielectric loss peak as a function of temperature.
- 2) The origin of the low-temperature crossover of the relaxation time of ice Ih was explained.
- 3) A new expression for the complex dielectric permittivity of ice was obtained.

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