

Abstract Submitted  
for the MAR14 Meeting of  
The American Physical Society

**Effect of Electromagnetic Fields on the Transportation of Nutrients in Fluids and its Effect on the Bacterial Growth** SAMINA MASOOD, University of Houston Clear Lake — We study the effect of electromagnetic fields on the transport properties of nutrients in fluids through their effect on the growth of bacteria. For this purpose we study the growth of bacteria in the presence of different type of magnetic fields and relate the relative change in the growth rates in different fields to the change in the transport of nutrients in the fluids. We use static magnetic field, electromagnetic field and the randomly changing magnetic field for this purpose. We manly concentrate on weak field effect due to their relevance with the daily life.

Samina Masood  
University of Houston Clear Lake

Date submitted: 09 Jan 2014

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