



School of Nano Science



IPM Condensed Matter &  
Statistical Physics Group

## Weekly Seminar

### **Nanostructures and Neurons; Potential Applications**

Invited speaker: *Dr. Pezhman Sasanpour*

*Department of Medical Physics and Biomedical Engineering*

*School of Medicine, Shahid Beheshti Medical University*

#### **Abstract:**

Neurons as fundamental units of nervous system are the basic carriers of electric impulses all through the body. In view of the fundamental study on the nervous system and also practical applications in different neurological disorders, an interface is required to convert the signals between the in-vivo and out of body world. Various structures with different strategies have been applied as the potential interfaces, however nanostructures seems to be from potential candidates in this regards. The design, fabrication, and the performance monitoring of nanostructures as the interface for the neural system would be discussed.

**Wednesday, 18 Day 1398 (January 08, 2020), 14:00-15:00**

**Seminar Room (Classroom A), Farmanieh Building, IPM**