

**Speaker:**

**Baboucarr Dibba**

**Hierarchical Neural Networks,  
p-adic PDEs, and Applications  
to Image Processing**

**Abstract:** The goal of the talk is to introduce a new type of p-adic reaction-diffusion cellular neural network with delay. We study the stability of these networks and provide numerical simulations of their responses. The second goal is to provide a quick review of the state of the art of p-adic cellular neural networks and their applications to image processing.

**Talk time:  
12:45-1:45 PM**

**Talk location:  
BLHSB 1.316**

**November 15**

**Zoom Meeting:  
<https://utrgv.zoom.us/j/85333215080>**

**Coffee and cookies will be  
provided.**

**For further information or for special accommodations, please  
contact Dr. Alexey Glazyrin via email [alexey.glazyrin@utrgv.edu](mailto:alexey.glazyrin@utrgv.edu).**

**More information about the seminar talks is available at the  
website [https://www.utrgv.edu/math/news-  
events/seminars/brownsville/index.htm](https://www.utrgv.edu/math/news-events/seminars/brownsville/index.htm).**