

# Next Generation Experiments to Measure the Neutron Lifetime

Workshop | November 9-10

## Agenda

**Friday, November 9**

La Posada de Santa Fe | Montana Ballroom

Morning (Introduction & Overview)

**7:30 - 8:00 am** Continental Breakfast | Montana Ballroom Foyer

**8:00 - 8:15 am** Welcome & Charge (Seestrom)

**8:15 - 8:45 am** Theoretical Introduction (Marciano)

**8:45 - 9:25 am** Overview of Beam Experiments (Wietfeldt)

**9:25 - 10:05 am** Overview of Material Bottle Experiments (Geltenbort)

**10:05 - 10:40 am** Break

**10:40 - 11:20 am** Overview of Magnetic Trap Experiments (Huffman)

**11:20 - 11:50 pm** Phase Space Evolution (Liu)

**11:50 - 1:20 pm** Lunch

Afternoon (General Systematics Talks)

**1:20 - 1:50 pm** Marginal Trapping (Coakley)

**1:50 - 2:30 pm** Chaos (Bowman)

**2:30 - 2:45 pm** Break

**2:45 - 3:15 pm** Spin-Flip Losses (Steyerl)

**3:15 - 3:45 pm** UCN Heating in Traps (Walstrom)

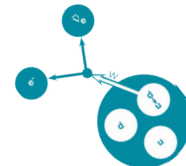
**3:45 - 4:00 pm** Break

**4:00 - 4:30 pm** UCN Detection: In-Situ or Draining (Golub)

**4:30 - 5:00 pm** Absolute Flux Monitoring (Yue)

**5:00 - 5:30 pm** Relative Monitoring + Uniformity of Detectors (Morris)

**5:30 - 6:10 pm** Overview of UCN Sources & Statistics Needed for 0.1 s Experiments (Young)



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**Saturday, November 10**

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Morning (Experiments in Progress)

Each experiment should address issues discussed in the previous session and identify additional problems including: pros & cons of the detection scheme, key systematic issues and blind analysis.

**7:30 - 8:00 am** Continental Breakfast | Montana Ballroom Foyer

**8:00 - 8:40 am** Ezhov Experiment (Naviliat-Cuncic)

**8:40 - 9:20 am** NIST UCN Experiment (Mumm)

**9:20 - 10:00 am** Hope (Leung)

**10:00 - 10:30 am** Break

**10:30 - 11:10 am** LANL Experiment (Saunders)

**11:10 - 11:50 pm** Penelope (Picker)

**11:50 - 12:30 pm** J-PARC Lifetime (Yamada)

**12:30 - 2:00 pm** Lunch

Afternoon (Panel Discussion)

**2:00 - 4:00 pm** Panel Discussion:  
R&D Program,  
Strategy for Funding (Leaders: Freedman/Kumar/Pendlebury/Dubbers);  
Community

**4:00 - 5:00 pm** Summary (15 Minutes Each Panel Member)

