

## **Philip David Mannheim – Recent Presentations to Community Groups**

### **2000**

1. "Einstein's Incredible Legacy", University of Connecticut Family Weekend, Storrs CT, October 2000.
2. "The Big Bang Theory", Fitch High School, Groton CT, December 2000.

### **2001**

1. "Is the universe accelerating?", University of Connecticut Physics Club, Storrs CT, September 2001.
2. "Science and the Bible", Emmanuel Synagogue Adult Education Program, West Hartford CT, October 2001.

### **2002**

1. "Is the universe accelerating?", Center for Learning In Retirement, Storrs CT, May 2002.

### **2003**

1. "The accelerating universe", Greater Hartford Learning Corridor, Hartford CT, January 2003.
2. "The accelerating universe", StarConn, Annual Meeting of Connecticut Astronomy Society, at Wesleyan University, Middletown CT, April 2003.
3. "The accelerating universe", University of Connecticut Physics Club, Storrs CT, April 2003.
4. "The accelerating universe", Skyscrapers, amateur astronomical society, Rhode Island, July 2003.
5. "String Theory", University of Connecticut Physics club, Storrs CT, October 2003.
6. "Astronomy and the Jewish calendar", Emmanuel Synagogue, West Hartford CT, November, 2003.

### **2005**

1. "The accelerating universe", E. O. Smith High School, Storrs CT, January, 2005.

## **2006**

1. "The accelerating universe and the anthropic principle", Center for Learning in Retirement, Storrs CT, January 2006.
2. "Science and our place in the cosmos", Merseyside Council of Christians and Jews, Liverpool, England, February 2006.

## **2007**

1. "The accelerating universe", Connecticut Valley Independent School Science Teacher Association, Suffield CT, April 2007.
2. "The accelerating universe", Greater Hartford Academy of Arts and Sciences, Hartford CT, May 2007.
3. "The accelerating universe", Bolton High School, Bolton CT, October 2007.
4. "The accelerating universe", Windsor High School, Windsor CT, October 2007.

## **2008**

1. "The accelerating universe", Amity High School, New Haven, CT, December 2008.

## **2009**

1. "Spacetime curvature and quantum gravity", University of Connecticut Physics Club, Storrs CT, March 2009.

## **2010**

1. "The accelerating universe", Hyde High School, Woodstock CT, January 2010.
2. "The accelerating universe", Osher Lifelong Learning Institute at the University of Connecticut, Waterbury CT, August 2010.
3. "The end of the universe", The Colin McEnroe Show, WNPR public radio station, Hartford CT, September 2010.
4. "The accelerating universe", University of Connecticut Physics Club, Storrs CT, October 2010.

## **2011**

1. "Have we reached an end to big ideas?", The Colin McEnroe Show, WNPR public radio station, Hartford CT, August 2011.
2. "Particle physics research at the University of Connecticut", University of Connecticut Physics Club, Storrs CT, October 2011.
3. "The work of Gerard 't Hooft", University of Connecticut Physics Club, Storrs CT, November 2011.

## **2012**

1. "The sky at night", Emanuel Synagogue Youth Education Program, West Hartford CT, October 2012.
2. "How do we understand 'now'?", The Colin McEnroe Show, WNPR public radio station, Hartford CT, November 2012.
3. "Quantum mechanics with non-Hermitian Hamiltonians", University of Connecticut Physics Club, Storrs CT, December 2012.

## **2013**

1. "The Higgs boson and cosmology", University of Connecticut Physics Club, Storrs CT, April 2013.
2. "Living without dark matter", University of Connecticut Physics Graduate Students Association, September 2013.
3. "The life of a star", University of Connecticut Physics Club, Storrs CT, October 2013.
4. "The large and the small of the universe", The Graduate Institute, Bethany CT, November 2013.

## **2014**

1. "The 2013 Nobel Prize for the Higgs Boson", University of Connecticut Physics Club, Storrs CT, March 2014.
2. "The Higgs Boson", The Colin McEnroe Show, WNPR public radio station, Hartford CT, April 2014.
3. Participant in discussion following the opening night showing of the movie "Particle Fever", Real Art Ways Cinema, Hartford CT, April 2014.
4. "The crisis in fundamental physics", University of Connecticut Physics Club, Storrs CT, October 2014.

## **2015**

1. "The Big Bang and the Accelerating Universe", Hebrew High School of New England, West Hartford CT, March 2015.
2. "Neutrino Oscillations", University of Connecticut Physics Club, Storrs CT, October 2015.

## **2016**

1. "Gravity Waves", interview on University of Connecticut radio station WHUS, April 2016.
2. "Dark Matter", University of Connecticut Physics Club, Storrs CT, October 2016.

## **2017**

1. "Dark Matter, Fact or Fantasy?", Westport Astronomical Society, Westport, CT, May 2017.
2. "Neutrino Oscillations", University of Connecticut Physics Club, Storrs CT, September, 2017.

## **2018**

1. "The Crisis in Fundamental Physics", University of Connecticut Mathematics Department, Research Experience for Undergraduates Program, Storrs CT, June 29, 2018.
2. "The Crisis in Fundamental Physics", Chapman University public lecture, August 31, 2018.

## **2019**

1. "Is dark matter fact or fantasy? – clues from the data", Video Presentation to SuspiciousObservers lay astronomy group: <https://www.youtube.com/watch?v=z5j92Zzojts>