

# Marty's early years

# Born in 1943

- The “Silent Generation”



# Childhood years

- Age ~6: “Mommy, I want to be a physicist when I grow up”
- Age 8: Helped Dad take apart and put back together a semi-automatic transmission.



# Teenage years – Fun with explosives

- Made and applied  $\text{NI}_3$  to legs of junior high chemistry teachers chair
- Made black powder
- Collected a full coffee can of gun powder by emptying bullets
- Summer honors high school program at Columbia. Built a Stern-Gerlach apparatus.
- Summer job doing fallout analysis of food samples looking for Cesium and Strontium.
- Taught his high school physics class. Even the teacher had to take the exam.

# College years

- Undergraduate at MIT
- Graduate work at MIT
- Advisors were Henry Kendall and Jerry Friedman
- Thesis experiment was Deep Inelastic Scattering, done here at SLAC.
- Bj will cover that.
- But I have one story.

# Schedule for rest of the day

- 9:15AM : **Deep Inelastic Scattering**
- 9:50AM : **Discovery of Charm**
- **Now: The SLC control system**
- 10:25AM : **The SLD Experiment**
- 11:30AM : **The SLD Vertex Detector**
- 12:05PM : **SLD Electroweak Tests**
- 1:40PM : **ILC - SiD**
- 2:25PM : **Development of Artificial Retina**
- 3:00PM : **The EXO Experiment**
- 4:05PM : **A Cool Copper Collider**
- 4:40PM : **Science Policy**

James Bjorken *SLAC*

Vera Luth *SLAC*

Tom Himel

Charles Baltay *Yale*

Chris Damerell *Rutherford*

Morris Swartz *Johns Hopkins*

Jim Brau *U. Oregon*

EJ Chichilnisky *Stanford U.*

Liang Yang *UCSD*

Emilio Nanni *SLAC*

Jim Siegrist *DOE*

# Filling in the gaps

- Marty went to CERN for 13 months after grad-school. Worked on the first ISR experiment with Jack Steinberger.
- Hired by Burt Richter in 1972 to work on the Mark-II at SPEAR.
- Built the SLC control system with Bob Melen.
  - New group in Central lab annex
  - Nan Phinney was one of the new hires
  - Exponentially better than old control system
  - Still in use 40 years later.
- Became an APS fellow and won the Panofski prize
- I strongly encourage Marty's long-time friends to tell more stories after dinner.