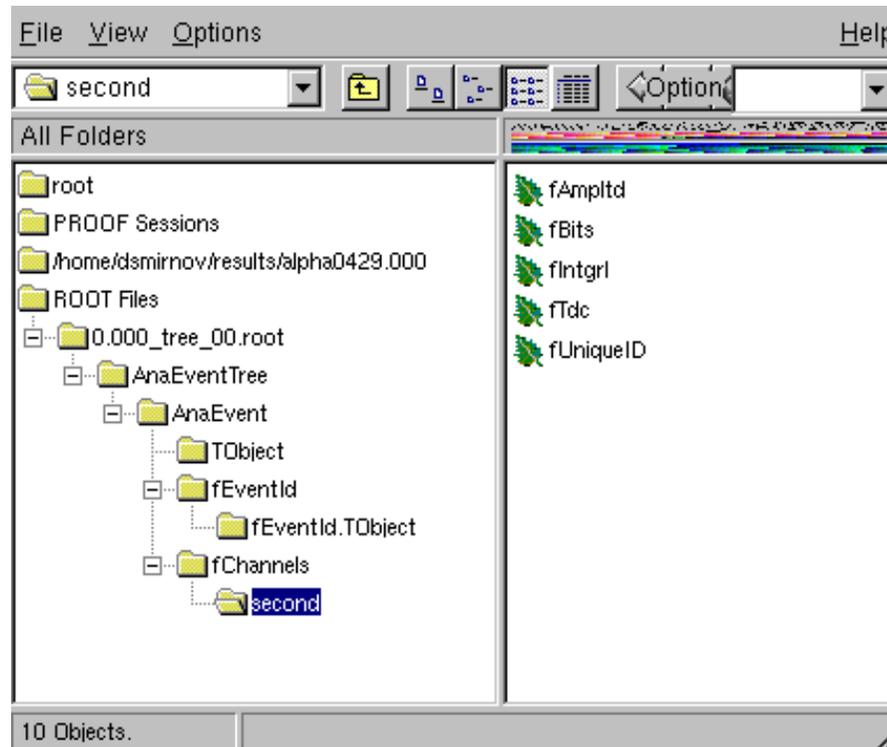


# Offline Analysis of p-Carbon Polarimeter Data

Dmitri Smirnov  
RHIC Spin Group, BNL

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- The offline framework has been modified to save raw data in ROOT trees
  - Three different types of tree can be produced
    - Raw data format
    - Separate branches for different channels
    - Ordered in time by revolution and bunch numbers
- Calibration constants and other run information is also saved as object into the ROOT file

**Analyzed Run Index**

[10765.006](#) **Run 10765.006** Blue ring Polarimeter 1

Time: May 20, 2009 01:22:00	Beam Energy: 100.135 GeV	Active Strips: 48	Size: 12M 10765.006
End Time: May 20, 2009 01:26:06	Target ID: 53	Disable Strips: 0	
Duration: 200.546417 s			

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	
x	x	x	x	x	x	x	x	x	x	x	x	x	o	o	o	o	o	o	o	o	o	o	o	x	x	x	x	x	x	x	x	x	x	x	x	x
36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	
x	x	x	x	x	x	x	x	x	x	x	x	o	o	o	o	o	o	o	o	o	o	o	x	x	x	x	x	x	x	x	x	x	x	x	x	

[11068.109](#) **Run 11068.109** Yellow ring Polarimeter 1

Time: Jul 6, 2009 09:34:40	Beam Energy: 100.135 GeV	Active Strips: 68	Size: 12M 11068.109
End Time: Jul 6, 2009 09:35:43	Target ID: 54	Disable Strips: 4	
Duration: 14.629244 s			

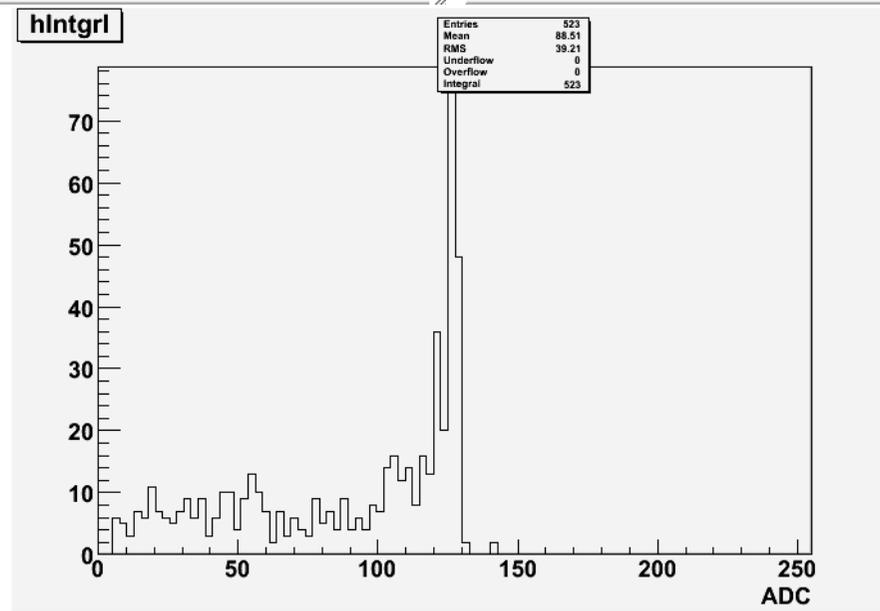
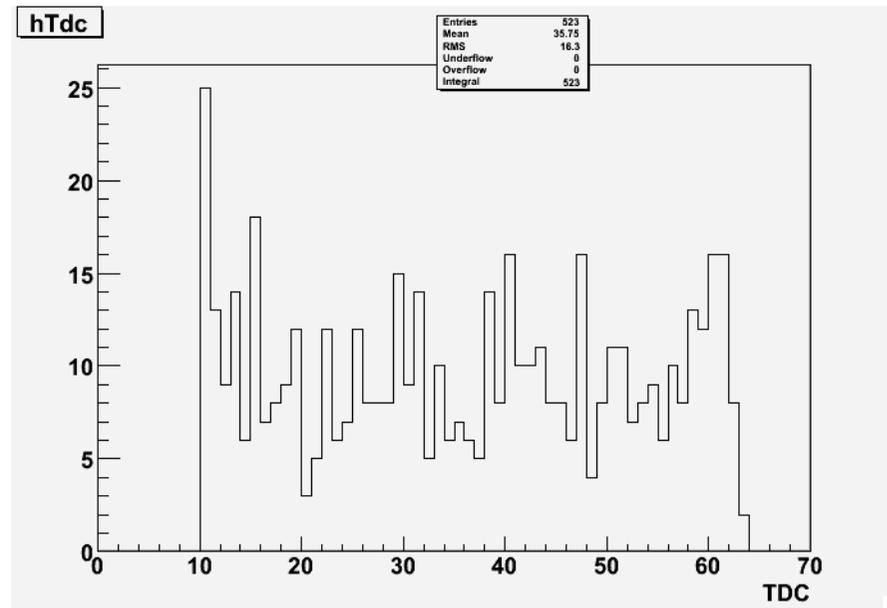
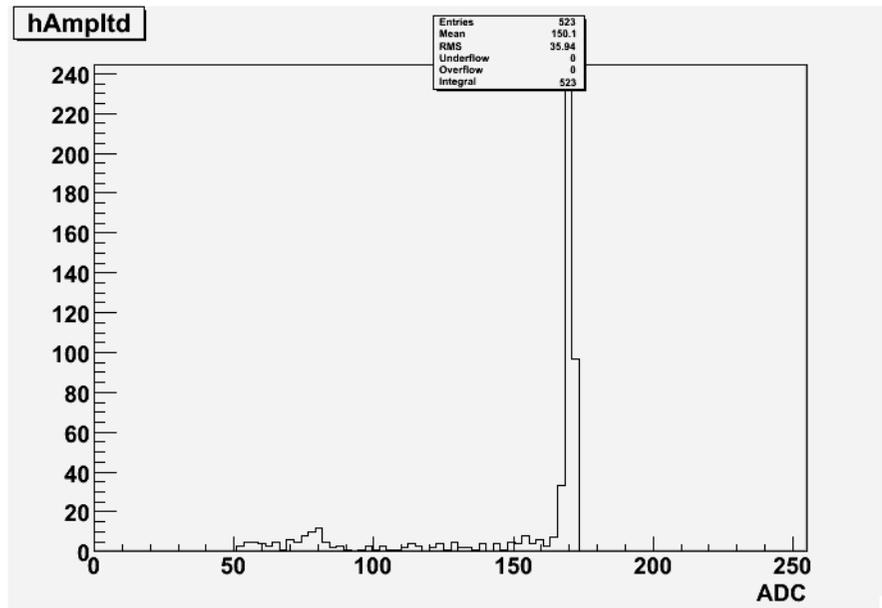
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	
x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	
x	x	x	x	x	x	x	x	x	x	x	x	x	x	o	x	o	x	o	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	o	x

[10450.116](#) **Run 10450.116** Yellow ring Polarimeter 1

Time: Mar 29, 2009 06:14:42	Beam Energy: 249.729 GeV	Active Strips: 47	Size: 8.0M 10450.116
End Time: Mar 29, 2009 06:15:38	Target ID: 53	Disable Strips: 4	
Duration: 0 s			

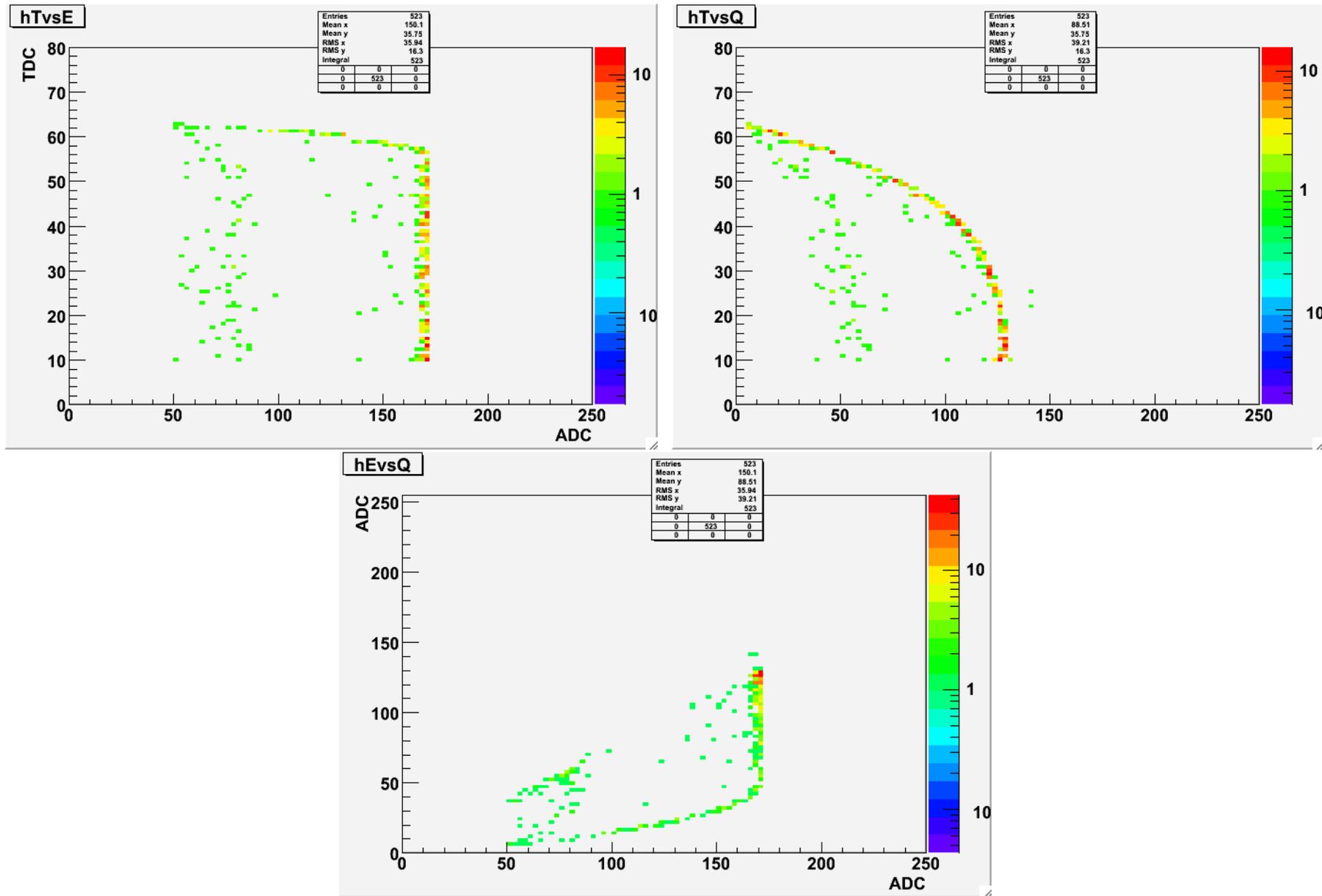
- Summary and plots will be posted online at <http://www4.rcf.bnl.gov/~cnipol/rundb/>

# Alpha Source Calibration



- Signal's amplitude, time, and integral charge
- April 29, 2009 calibration run, Channel 33

# Alpha Source Calibration



- Looks like the tail of the waveform is cut off by the integration window
- What is the nature of the “small” signal bump? It is not the tail

- There is no calibration available for the integral charge
  - Investigate
- The offline framework is under control
  - Continue updating and improving it
  - Reproduce selected 2009 results
  - Add web-based reports
- Will be ready for 2011 data