

System Tests Report

Engineering Model – v3r0407p13 (no big news, based on GR v4r7)

GlastRelease – v6r0, v6r1, v6r1p1, v6r1p2, v6r2, v6r2p1, v6r2p2

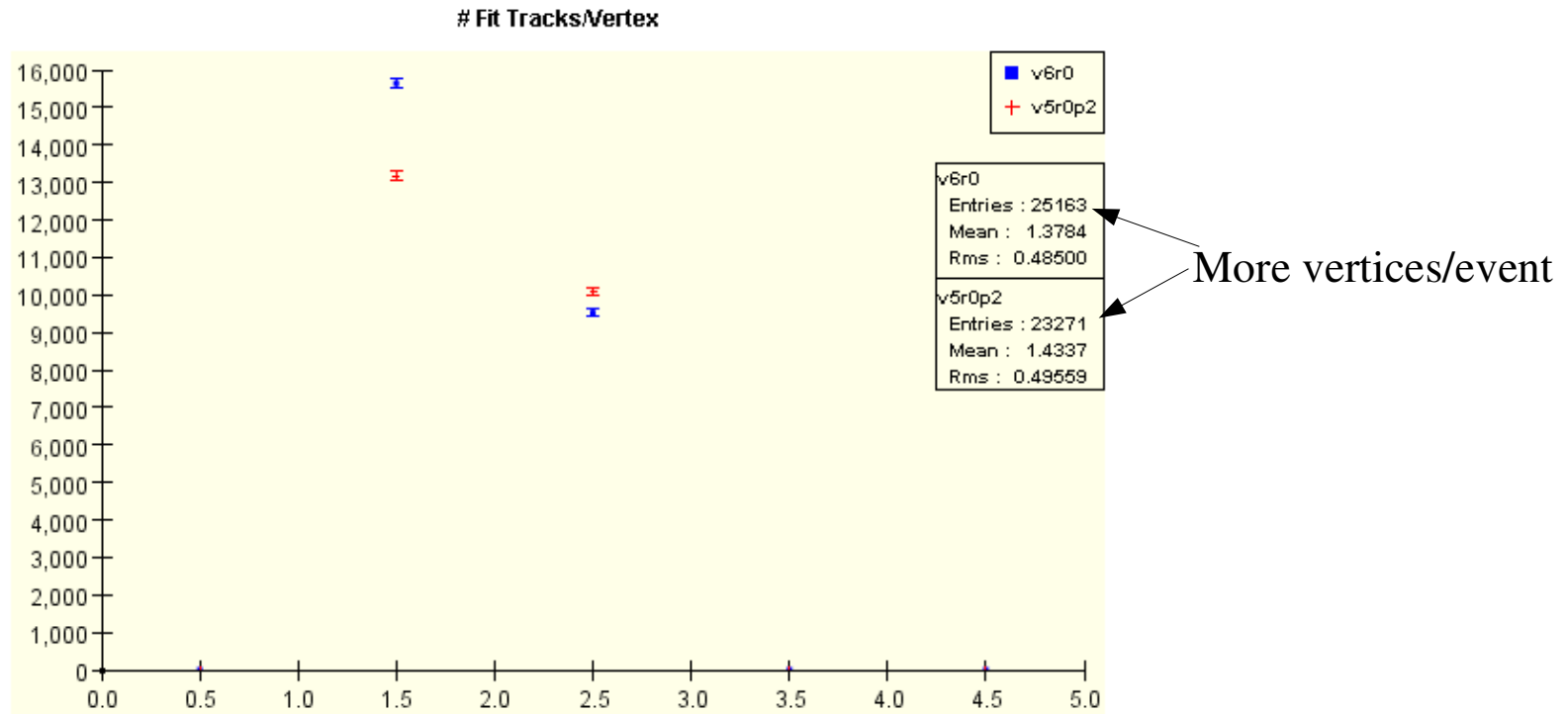
New TkrRecon, Root upgrade, Trigger bits defined in enums

(each of these broke the systests and required a not-backward compatible upgrade of the systest code)

GlastRelease v6r0

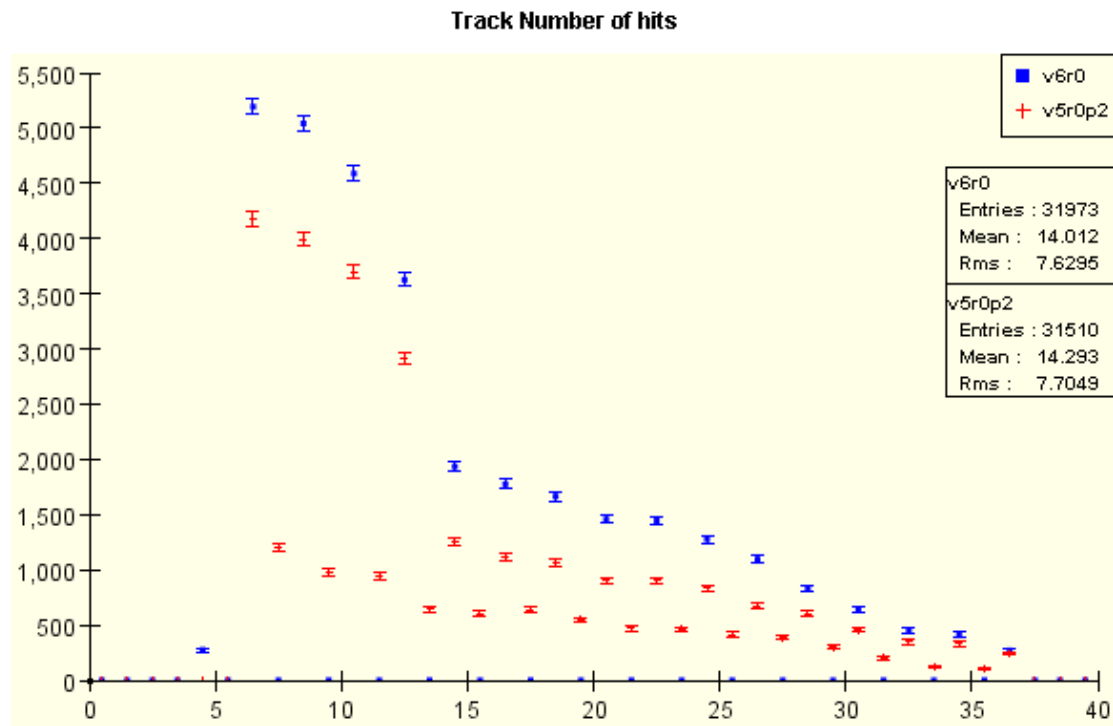
New TkrRecon, New Root, New trigger bit definition

VerticalGamma100MeV



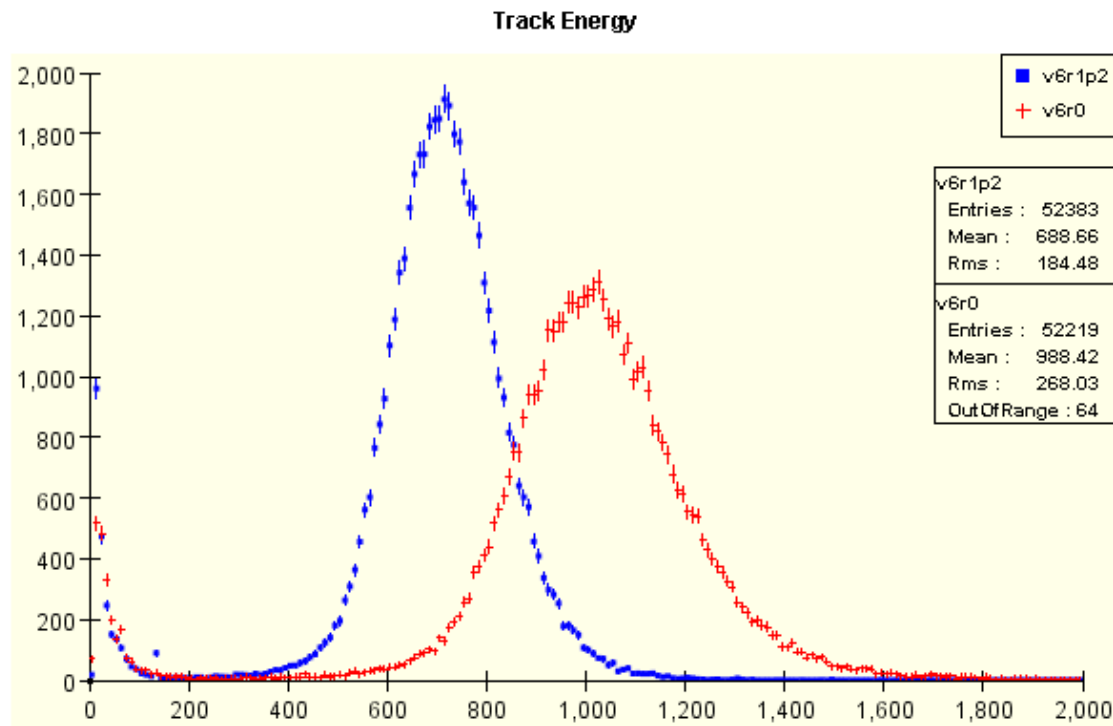
Number of events with at least one track has remained the same, the number of vertices/event has increased and the number of tracks/vertex has decreased

Number of hits/track



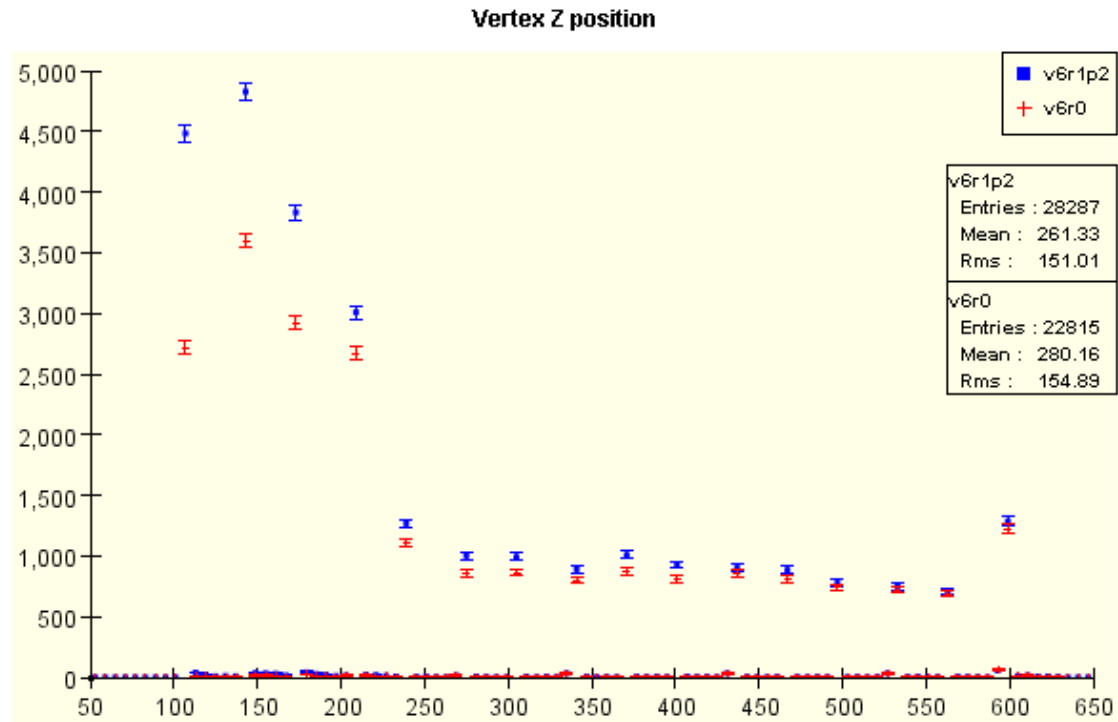
Only get even number of hits/track for the new recon.

v6r1p2



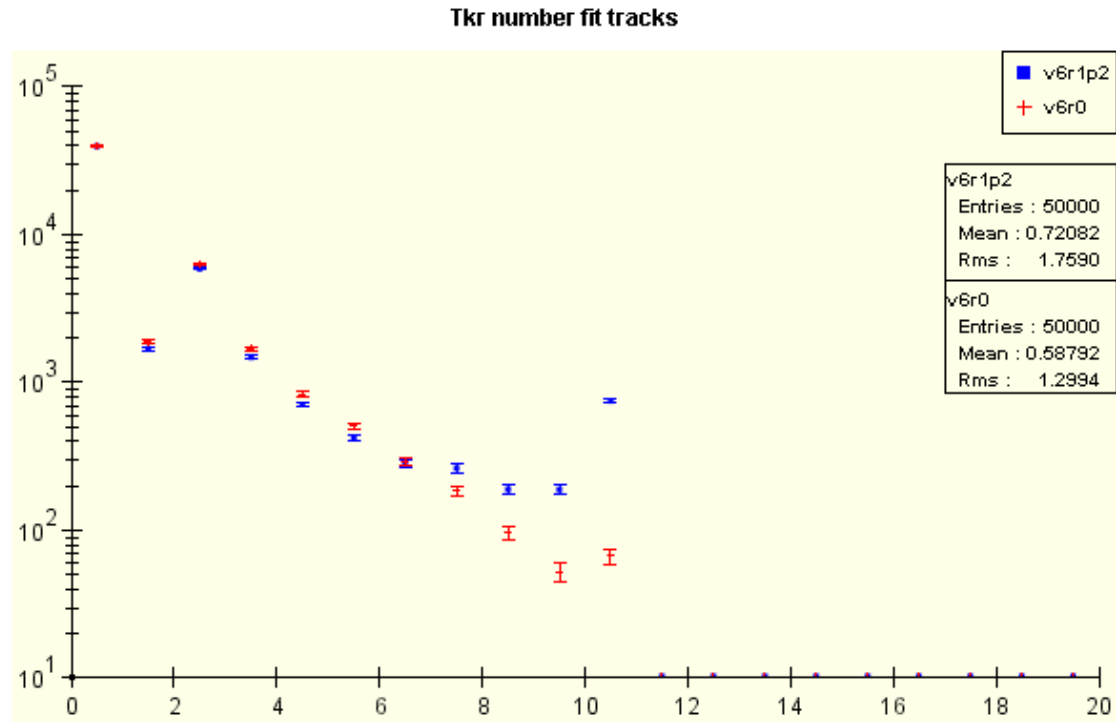
Track energy plot now diverging from old recon distribution. Tracy says that this is expected.

v6r1p2



Distribution (of z) and number of vertices has changed.

v6r1p2

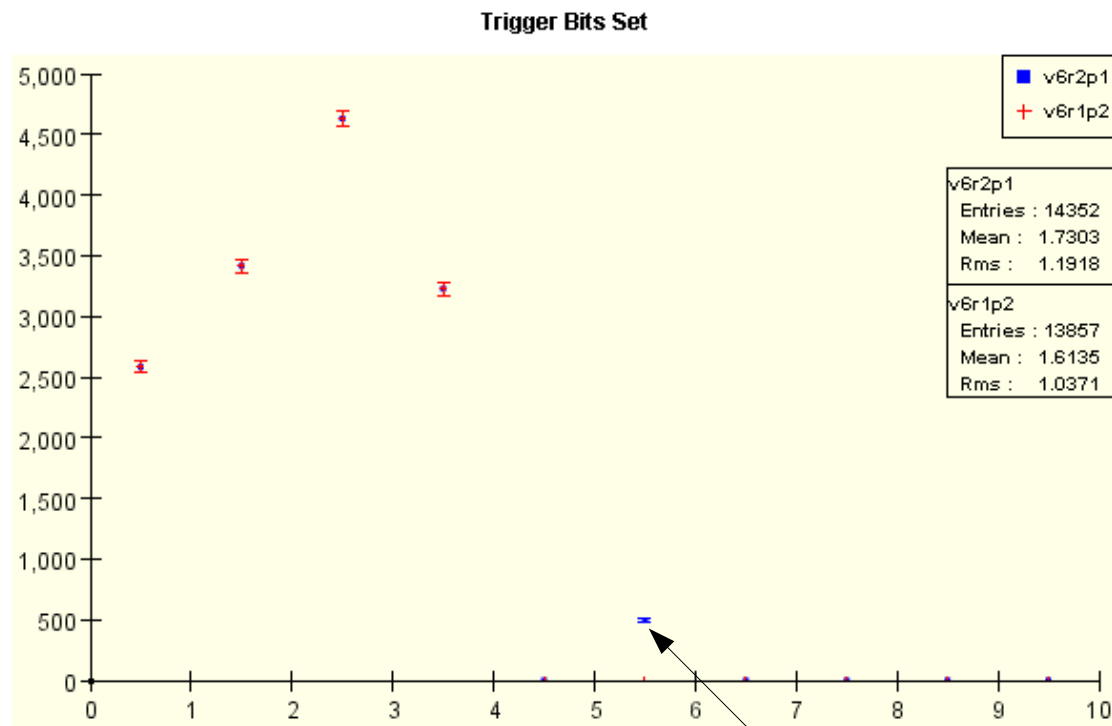


Number of fits tracks/event has increased. The number of events with at least one track has remained constant.

However, there has been a large jump in cpu usage!

Later Releases

v6r2p1: Problem with some precompiled sources (chime spectrum).
Trigger bits changed.



What is this?

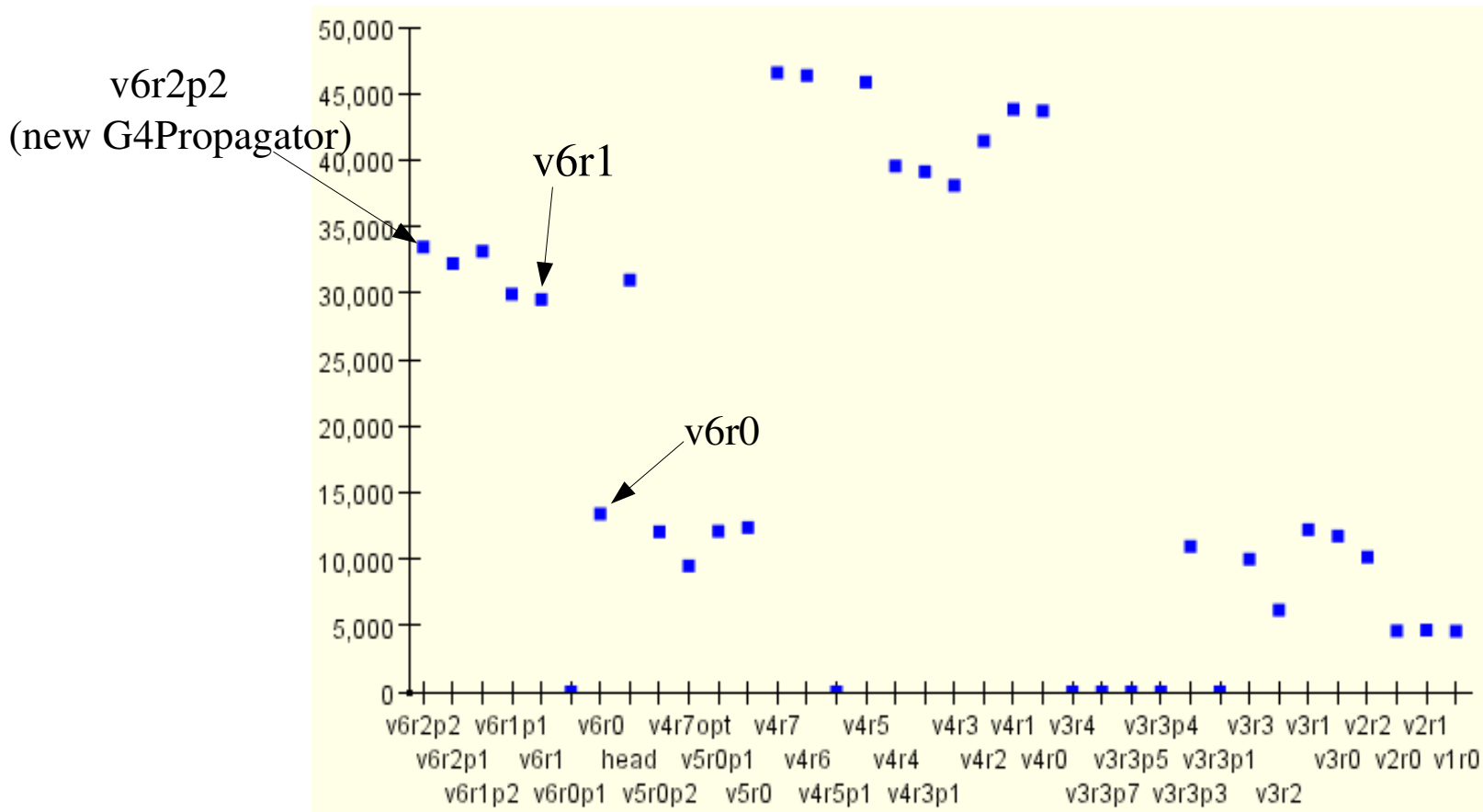
Later Releases

v6r2p2: Still a problem with some precompiled sources, introduced a bug with G4Propagator.

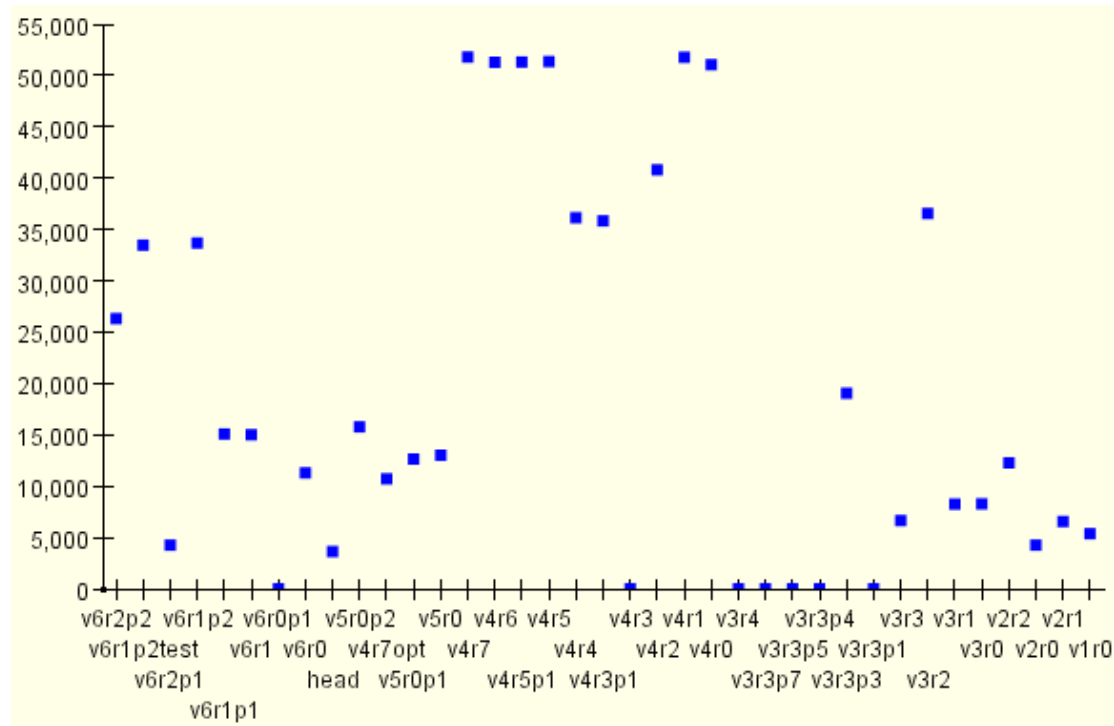
v6r2p3: Compiled sources have been fixed but still have a problem with G4Propagator.

v6r2p4: systests not yet run.

Cpu usage – allgamma



cpu usage- background average



Also a factor of 2 slowdown.

PSF

I had a quick look to see if I could find a performance improvement accompanying the cpu usage jump.

	v5r0p2	v6r0	v6r1p2
N(<20 deg)	18122	18166	18180
N(<3 deg)	8447	7652	7811
N(<2 deg)	5228	4607	4711