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Subject: Re: Hadron Collider

Posted by [Ryu](#) on Thu, 11 Sep 2008 10:02:38 GMT

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Doitle wrote on Wed, 10 September 2008 20:16Ryu wrote on Sat, 06 September 2008 13:14Doitle wrote on Sat, 06 September 2008 18:217000mph? lol...

Am I missing something here?

Yes you are. 7000mph is absurdly slow.

LHC Peoples

Once or twice a day, as the protons are accelerated from 450 GeV to 7 TeV, the field of the superconducting dipole magnets will be increased from 0.54 T to 8.3 T. The protons will each

protons have a Lorentz factor of about 7,500 and move at about 99.999999% of light speed.

99.999999% of the speed of light would mean the particles are traveling at 670,633,494 mph. Now do you see why I laughed at your claim of 7000mph? 7000mph Would be if they had two space shuttles about halfway to break-orbit speed crashing into each other. That would produce many 7000mph particle collisions.

Also I understand they are just in test run phase and are not running all out but 7000mph is bogglingly slow for particle physics.

I read some were they would be traveling at 7.xxx something, could be 70,000 or similar.. But I'm not quite sure, so do forgive my ignorance, But yeah, I guess you're right.. it is fairly slow for a project of this scale..

670 million? lord all mighty.. we're doomed.

DOOMED!