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Subject: Re: Hadron Collider

Posted by [Doitle](#) on Wed, 10 Sep 2008 19:16:31 GMT

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Ryu wrote on Sat, 06 September 2008 13:14 Doitle wrote on Sat, 06 September 2008 18:21 7000mph? 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.

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