

PENROSE

Yes, I do know that both the Special and General Theory of Relativity have been tested and proven to be correct! I also know that Quantum Mechanics has been proved to be correct! And that both can not be correct!!! And that, only one of them can be correct!!! Or that both are no so correct, and that we need a new Theory that could accommodate both ideas, or even replace them!!! Superstrings seems a good candidate yes Stephen, Relativity is our good friend!!!

but, I must be honest, I still have my reservations!!!

Example: Had any one future generation travel in the past, we would now know it!!! For transit in and out Of the past and future would be a daily occurrence for our future descendants! DON'T YOU AGREE?

HAWKING

My dear ROGER!!! Do I need to remind you that KERR solution on rotating black holes, shows clearly that it is possible to travel back in TIME via the donut shape opening at the centre of the rotating black holes!!!

There is no Singularity present in a rotating black hole.

In the future we may be able to construct black holes and join them together to form tunnels in the fabric of TIME..(WHATEVER THAT IS!!!). I hear that the Russians are seriously considering such possibilities!!!

A Russian Physicists believes that we will be able to construct a 2-way tunnel using 2 black holes in 200 years From now!!!

PENROSE

Yes Stephen, Disney Land will go out of business with this future circus like mega-ride of a 2 tunnel black hole!!! who knows, it could even replace British Rail!!!

STOP watching Star-gate STEPHEN, and be serious!!! The mathematics does not really say what we have at the other end of the tunnel!!! Nor will we ever know that black holes tear the fabric of SPACE-TIME and Show their faces in other TIMES!!! But Let assume that such journey may be possible in some distant future, how do you propose to tell the

black hole to take you to London for the Millennium celebration the 31st of December 1999???

HAWKING

Well.....Yes....we do have some uncertainties, but we must never stop dreaming!!!

PENROSE

Thinking about these matters, I must confess that I find it hard to believe that 1-day, we could travel back and forward in TIME as we please!!!

HAWKING

WHAT IS YOUR PROBLEM NOW??? You should know that the General Theory of Relativity allows us to travel forward in TIME!

PENROSE

HOW STEPHEN? I am getting more and more confused!!!

HAWKING

We could send space ships hovering large gravitational bodies that are capable of large twists and stretches of the fabric of TIME hence allowing TIME DILATION to set in!!! If we allow the space ship to hover for a long Periods of TIME near the strong gravitational field of such heavenly large bodies, we will in TIME travel into the future!!!

PENROSE

In reality the only future your TIME travellers will see, is a spaghetti like trip to the dead zone!!!

HOW DO YOU PROPOSE TO STOP GRAVITY STRETCHING YOUR DOOMED TIME TRAVELLERS???

HAWKING

Yes, I must admit that there are some technical problems Associating with this proposed idea!!!

But nothing can stop us travelling forward in TIME by Way of accelerating future space missions to near the speed of light!!! Space ships could be send out, say for 20 year of the space ship Relative TIME, so that hundreds of years could pass here on Earth!!! This will be our solution to TIME travel!!!