Re: How would you connect two space stations?

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On Fri, 18 Feb 2005 05:08:44 GMT
"Mike Rhino" <october2003@alexanderpics.com> wrote:

> Suppose you wanted two space stations, one with zero g and one with .5
> g with regular traffic going between them. Should they be connected
> together and how? When people move about within a space ship, that
> changes the center of gravity. The spinning ship may have a wobble
> which would cause a problem with rigid connectors. Slightly flexible
> could work. A connection would allow you to send power from zero g
> solar collectors to a spinning ship.

If the zero G platform is built strong enough to take some gravity (the ISS is not) then it could be carefully coupled via a bearing to the rotating structure. The rotating structure could be trimmed by pumping water around the rim.

A better option would be to rotate the (near) zero G structure but keep it close to the axis so gravity is low.

Or you could use gravity gradients to provide gravity on an elongated station, and part of it will be in microgravity.

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