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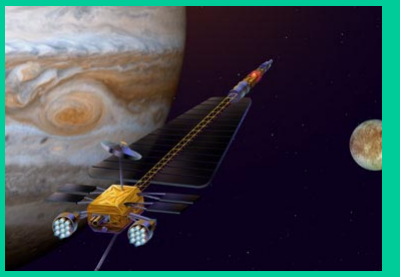
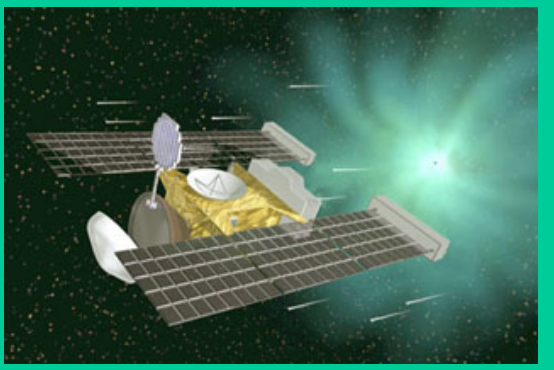
Dave Dot

Mission Imagination is greater than knowledge.

We at Dave Dot Inc Think that you should always use your imagination.





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NASA Space Station On-Orbit Status 9 April 2005

note: *This NASA Headquarters internal status report, as presented here, contains additional, original material produced by SpaceRef.com (copyright © 2005) to enhance access to related status reports and NASA activities.*

All ISS systems continue to function nominally, except those noted previously or below. Saturday, first weekend rest day for the crew. Today Expedition 10 completes 178 days in space (176 aboard ISS), with 16 days to go. On this date 46 years ago (1959), NASA presented its "Mercury Seven" astronauts to the public (actual selection was on April 2, 1959).

CDR/SO Chiao and FE Sharipov performed the regular weekly 3-hour task of thorough station cleaning, wearing protective garment. As a special task today, the crew equipped the vacuum cleaner with a fresh dust collector, which they later sealed and packed up for return to Earth for analysis of its contents.

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Leroy took the periodic (weekly) reading of the cabin air's current CO2 (carbon dioxide) partial pressure in the SM and Lab, using the U.S. CDMK (CO2 monitor kit), for calldown (along with the battery status) for use in trending analyses.

Chiao also completed the regular weekly maintenance reboot on the operational PCS (portable computer system) laptops and the bi-monthly restart of the OCA comm router laptop.

Sharipov connected the EGE-2 laptop to the BSR-TM Regul interface unit (part of the Russian radio control & communications system) and the BITS2-12 onboard data/telemetry system in support of a test of an upcoming switch to automated payload data file downlinking. [Tentative plans are to set up automated files downlinking, without crew involvement, for the European ROKVISS remote-control robotics experiment using ground commanding and the onboard "Sigma" application, a ballistic navigation program to compute the station's ground track on the Earth.]

Salizhan also loaded the ISS Wiener laptop and payload server (BSPN) with new software, updating them to eliminate the current off-nominal situation and recover BSPN hardware functionality in order to support the upcoming ROKVISS hardware operations.

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At ~10:20am EDT, Leroy and the ADUM (Advanced Diagnostic Ultrasound in Micro-G) ground team held their post-session analysis to discuss the successful ultrasound Z-scans performed on 4/5, the last for Exp. 10. [Conducting these scans repeatedly has the purpose of increasing the proficiency of crewmembers. The ground compares the scans to evaluate the crew's learning curves and to see if procedures need to be adjusted. ADUM has to date excellently demonstrated the capability of non-medical personnel to downlink diagnostic information (ultrasound images) for evaluation by medical specialists on the ground.]

Salizhan completed the routine maintenance of the SM's SOZh environment control & life support system, including ASU toilet facilities.

With the Elektron oxygen generator still off (until 4/13), the FE did some more testing on the unit, today checking the lines of its H2 and O2 gas analyzers with the nitrogen purge assembly (BPA) and the Elektron pressure gauge (BID) for obstructions.

In his last "Saturday Science" session (of 14 all together, totaling 12 hours of Leroy's own "free" time), the Science Officer today completed the second close-up photography session on the SEM (Space Experiment Module) experiment. [Students involved in SEM had

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uplinked a list of questions for Leroy. In his Saturday Science programs, Dr. Chiao "accomplished many research objectives that would otherwise not have been completed", holding conferences with five different experiment teams, including one from a department store in Cleveland (a first for ISS).]

Working off his "job jar" task list, the FE conducted another session with the "Uragan" (hurricane) earth-imaging program that had him focus the Nikon D1X digital camera with f400 or 800 mm lens from SM window #9 on targets specified by an uplinked list. [Today's targets included detailed imagery of the southern area of the Taman peninsula at the Black Sea coast, Vladikavkaz, and oil sleeks in the Caspian Sea and along the Apsheron-Cheleken line in nadir.]

At 2:33am EDT, FE Sharipov set up the SM's amateur radio equipment and conducted a ham radio exchange with students in a school at the Russian city of Andijan.

At ~5:00am, the crew held their weekly teleconference with ISS Program Management at JSC/Houston via S-band/audio.

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At ~8:05am, Chiao and Sharipov engaged in their weekly planning conference (WPC) with the ground, discussing next week's "Look-Ahead Plan" (prepared jointly by MCC-H and TsUP/Moscow timeline planners), via S-band/audio, reviewing upcoming activities and any concerns about future on-orbit events.

The crew conducted their regular daily 2.5-hr. physical exercise program on TVIS treadmill, RED exerciser, and VELO cycle with bungee cord load trainer. [Salizhan's daily protocol currently prescribes a four-day microcycle exercise with 1.5 hr on the treadmill and one hour on VELO (today: Day 4 of a new set).]

Leroy then transferred the daily TVIS and RED exercise data files to the MEC (medical equipment computer) for downlink, as well as the daily wristband HRM (heart rate monitor) data, followed by their erasure on the HRM storage medium.

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During a 5-min "window" at 12:09pm, researchers on the ground again conducted the European/Russian laser-beam experiment SPQR (Specular Point-like Quick Reference). [SPQR, installed at SM window #3 along with its Nikon D1X camera, tests a ground-based imaging system, using special optics and image processing, to determine the feasibility of detecting external damage to a spacecraft in orbit from the ground. It uses a pyramidal corner reflector (CCR, Cube Corner Reflector) at the SM window, to reflect a laser beam emitted by a ground station back to the ground. The crew was advised not to look out the portholes during the sessions, the times of which were uplinked, and there are no CEO targets scheduled during the brief sessions. The SPQR Hazard Report indicates that the laser power at the ISS remains well below the threshold for injury.]

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Current Projects

Project #1: Black Hole

This voyage thew the Milky Way will be one of a kind! As the Dave Dot Probe Nears a black hole it will attempt to enter.

Project #2: Images

During the first project the collected photos.

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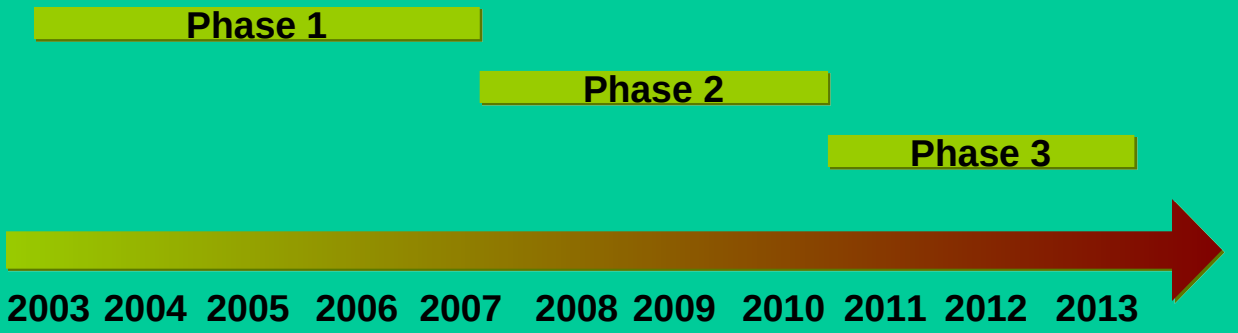
Black Hole

Project Manager David Lones [daveherley476@hotmail.com]

Details This project will be the first space probe to enter a black hole and survive it.

Schedule



Black Hole Tracking

Images

Project Manager David Lones [daveherley476@hotmail.com]

Details During the first project the collected photos.

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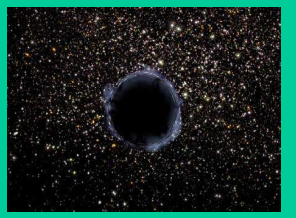




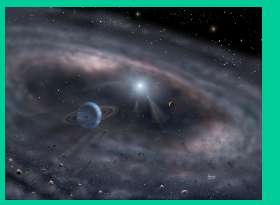

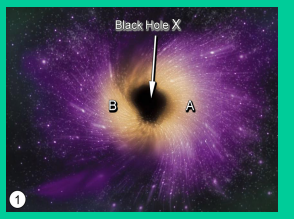

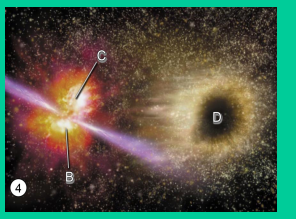

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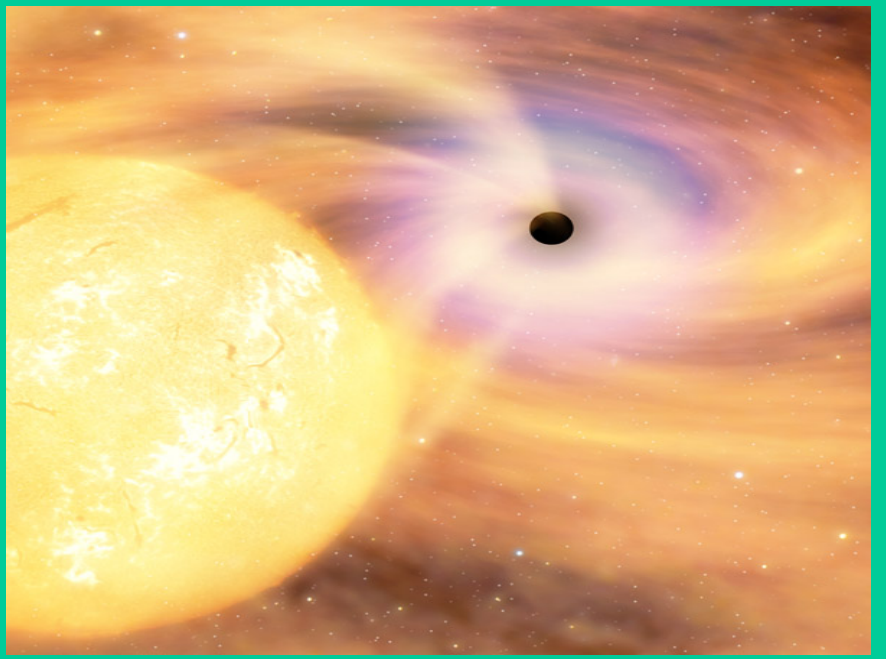

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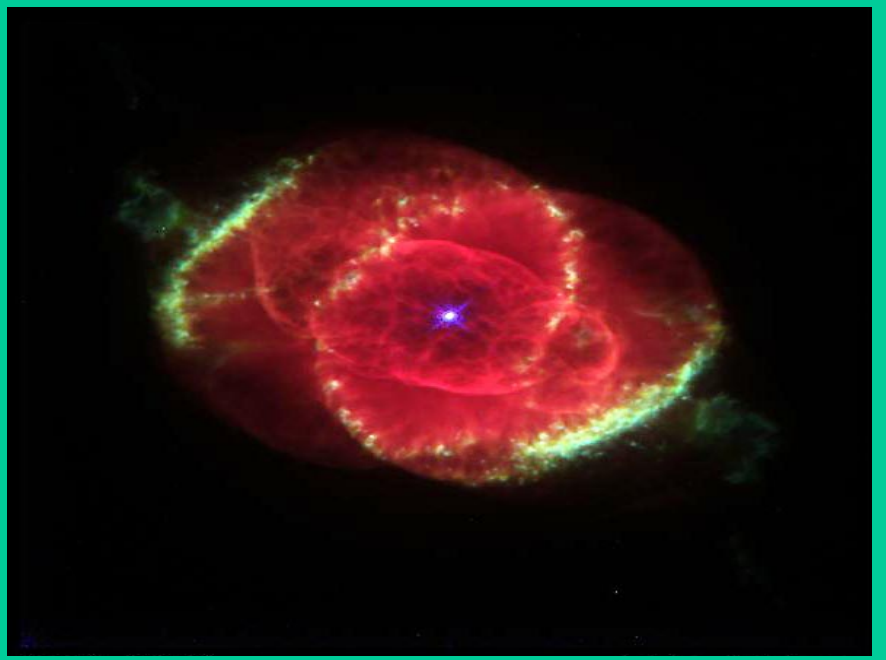

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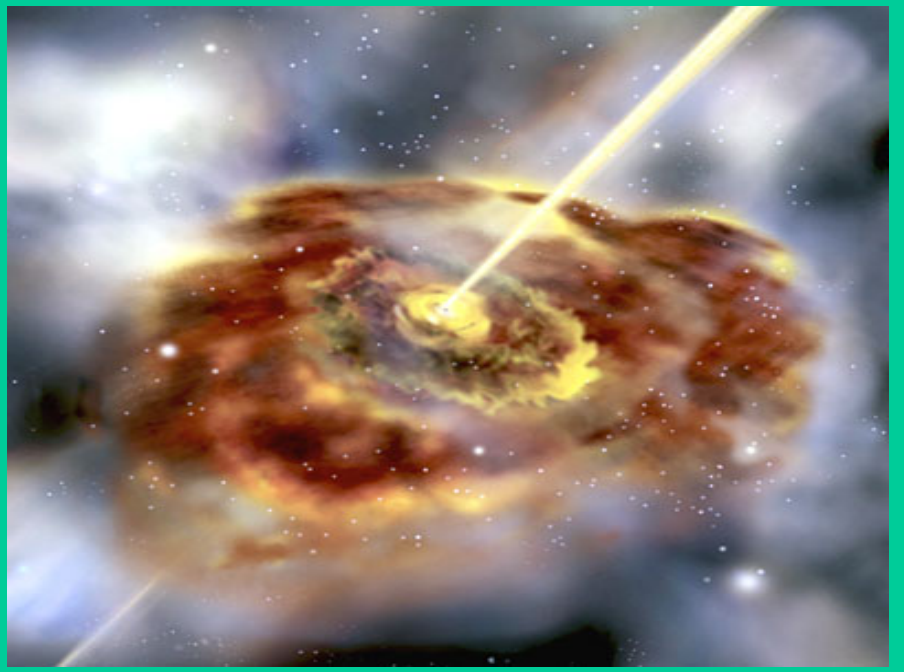

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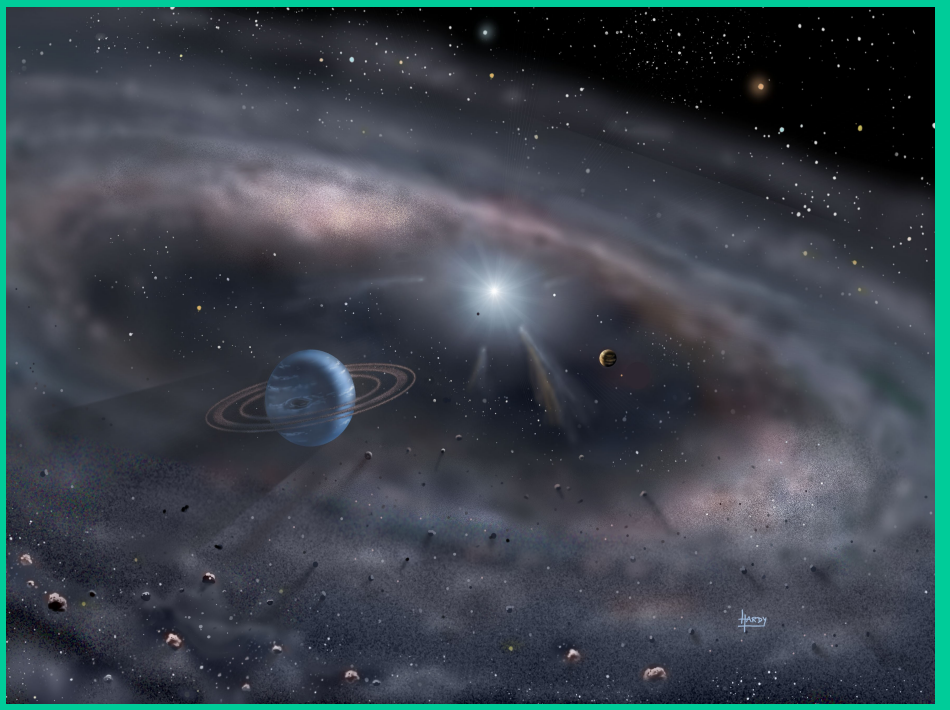

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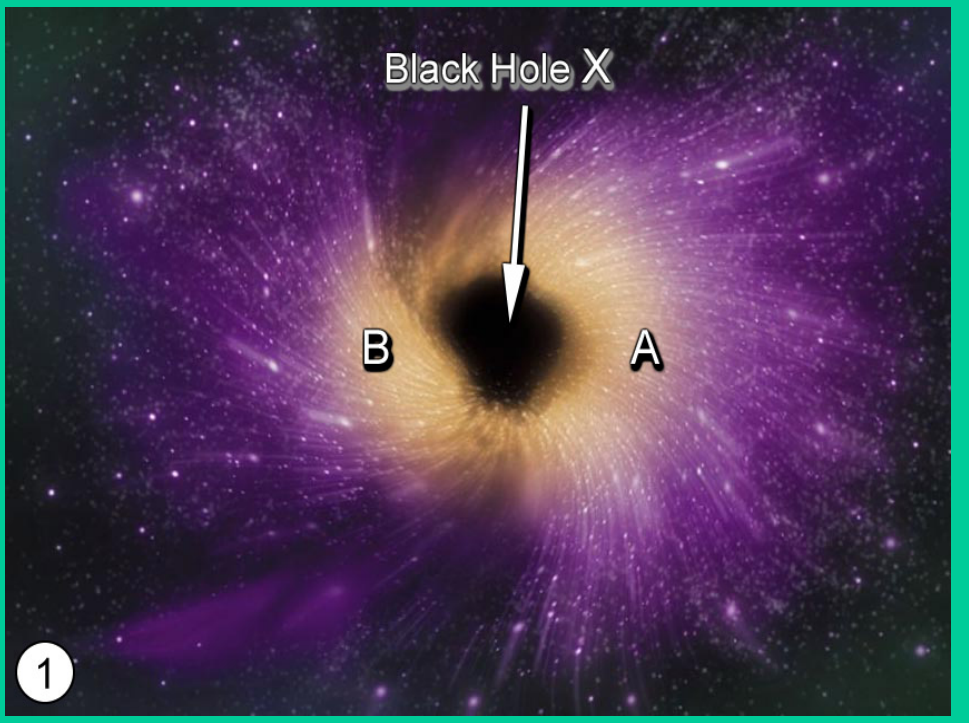

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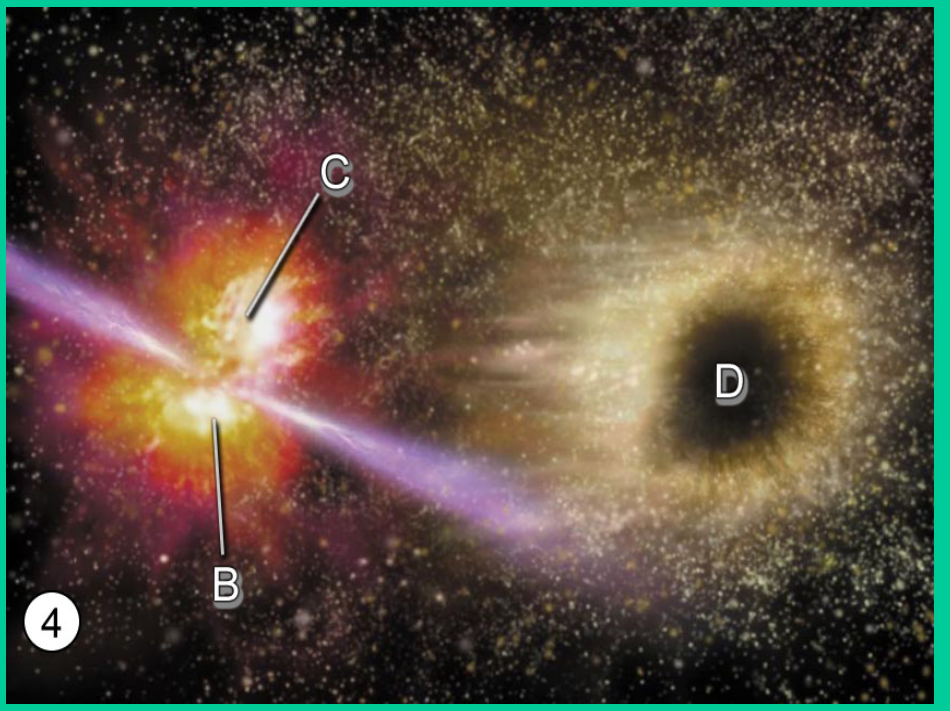

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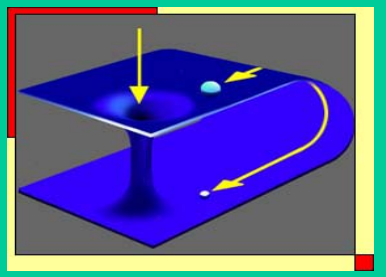

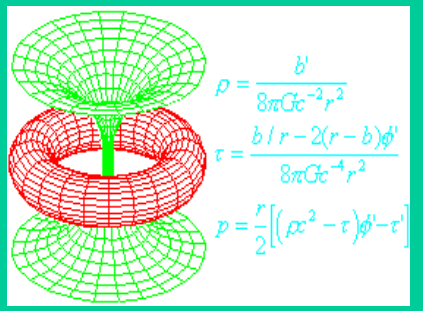

A beam of light traversing a path between two points in curved space-time can take longer to complete the journey than a hypothetical spaceship taking advantage of a wormhole's shortcut connection between the two distinct regions of space-time.

Although they may seem more the stuff of science fiction than science fact, physicists first dreamed up the idea of wormholes. In 1935, Albert Einstein and Nathan Rosen realized that general relativity allows the existence of "bridges," originally called Einstein-Rosen bridges but now known as wormholes. These space-time tubes act as shortcuts connecting distant regions of space-time.

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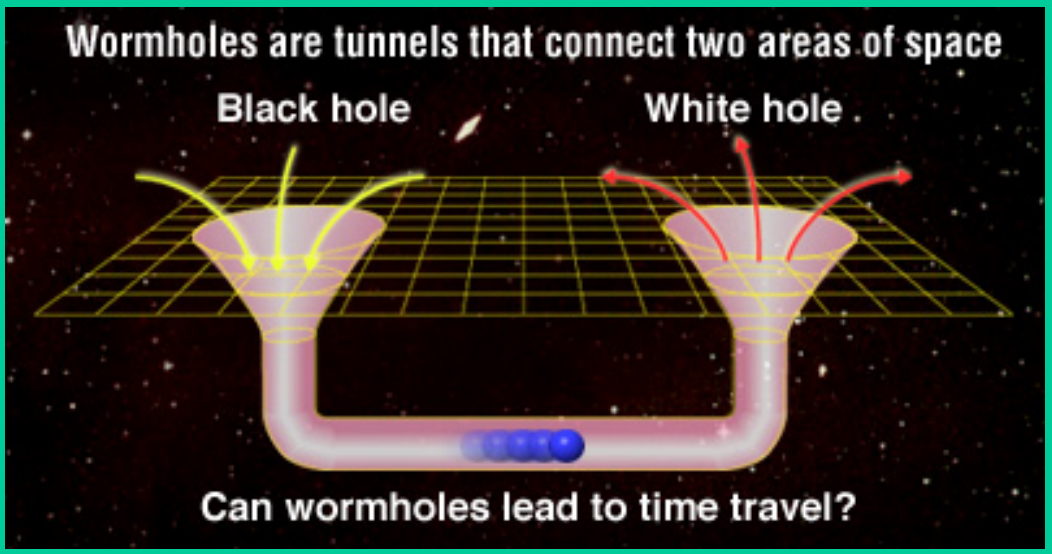
Worm Holes

By journeying through a wormhole, you could travel between the two regions faster than a beam of light would be able to if it moved through normal space-time. As with any mode of faster-than-light travel, wormholes offer the possibility of time travel.

Until recently, theorists believed that wormholes could exist for only an instant of time, and anyone trying to pass through would run into a singularity. But more recent calculations show that a truly advanced civilization might be able to make wormholes work.



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Time Travel

Time Travel in Simple Terms

So, where do we start? How about time? What is time? The Oxford English Dictionary defines time as "a limited stretch or space of continued existence", or "as the interval between two successive events". We glance at our wristwatches and notice the second hand slowly counting the passing seconds. We are in our own time machines: Our hearts are pumping blood, we're breathing; we are existing through time (at least until our own personal time machines seriously malfunction).

What are the possibilities of moving through time at a rate different to one day per day? Common sense tells us that it's all nonsense - time travel is impossible. However, common sense is not always such a good guide. Some hundred years ago common sense said man could never fly; now we travel all over the world.

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The commonest objections to time travel are the so-called paradoxes. For example, if we could travel through time, imagine what would happen to a time traveller if he (or she) travelled back in time and killed their own grandmother at birth. In theory the time traveller will therefore never be born, so the journey could never have been made in the first place; but if the journey never occurred then the grandmother would be born which means the time traveller would have been born and could make the journey ... and so on and so on. This is a paradox.

There are two possibilities to resolve this paradox. The first is that the past is totally defined, i.e. everything that has happened or must happen, including the time traveller's attempt to kill his grandmother, cannot be altered and so nothing will change the course of history. In other words, the time traveller will experience endless "mishaps" in trying to kill their grandmother and will never achieve the murder, thus keeping time (or at least events) intact.

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The second possibility is more complex and involves the quantum rules which govern the subatomic level of the universe. Put simply, when the time traveller kills their grandmother they immediately create a new quantum universe, in essence a parallel universe where the young grandmother never existed and where the time traveller is never born. The original universe still remains. Stephen hawking believes he can explain the origin of our universe as a variation of this parallel worlds theme.

Having explained these paradoxes how does one travel through time? The secret is to travel at speeds close to the speed of light. The main text of the web site explains this in greater detail. The obvious problem with travelling very near the speed of light is that as you approach C (the speed of light) time slows down until at C time stops. How can you go faster if time has stopped? The answer involves a complex process called quantum tunnelling and is discussed at length in the main text of this web site. Then once the velocity becomes greater than C time moves backwards and the traveller has entered the realms of negative time.

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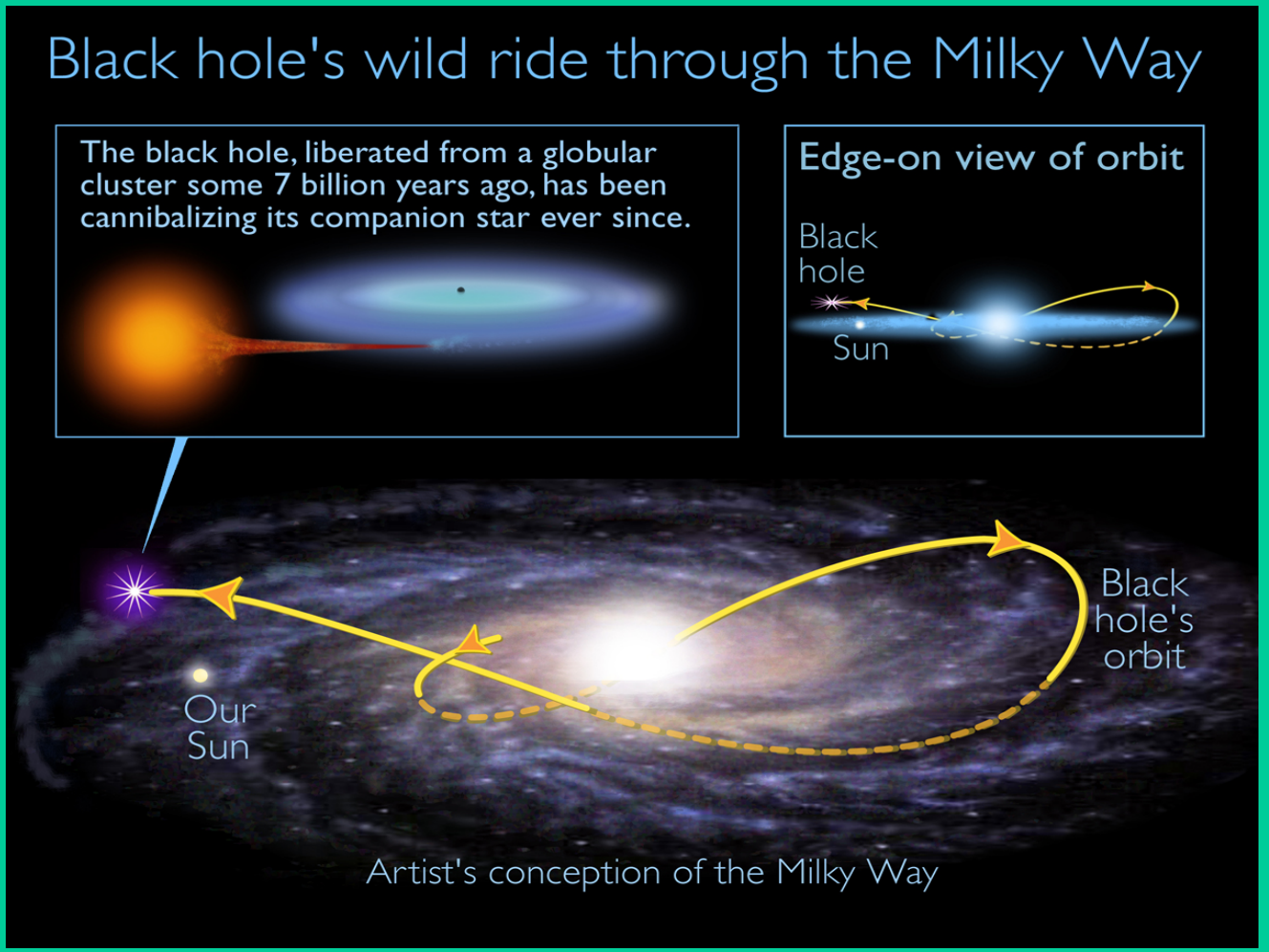

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David Lones

e-mail David (daveherley476@hotmail.com)

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