



## Links zur Show vom 7. Juli 2021

### Space Tourismus – Krieg der Milliardäre

Wettstreit Bezos, Branson & Co.

<https://www.forbes.com/sites/jamiecartereurope/2021/07/05/the-19-days-that-will-change-human-spaceflight-forever-as-branson-bezos-and-boeing-head-for-space-this-july>

<https://www.cash.ch/news/top-news/space-race-wettstreit-der-milliardaere-branson-will-noch-vor-bezos-ins-weltall-1789326>

<https://edition.cnn.com/2021/07/01/tech/jeff-bezos-richard-branson-first-to-space-race-scni/index.html>

<https://www.forbes.com/sites/roberthart/2021/06/25/branson-vs-musk-vs-bezos-billionaire-space-race-heats-up-as-virgin-galactic-is-cleared-for-passengers>

Blue Origin

<https://www.blueorigin.com>

<https://edition.cnn.com/2021/06/12/tech/jeff-bezos-space-blue-origin-auction-winner-scni/index.html>

Wally Funk fliegt mit Jeff Bezos

<https://www.blueorigin.com/news/wally-funk-will-fly-to-space-on-new-shepard>

<https://www.bbc.com/news/world-us-canada-57686654>

<https://www.nytimes.com/2021/07/01/science/space/wally-funk-blue-origin.html>

<https://www.theguardian.com/technology/2021/jul/04/this-space-race-has-its-downside-rocketwoman-wally-funk-joins-crew-for-jeff-bezoss-ego-trip>

<https://edition.cnn.com/2021/07/01/tech/jeff-bezos-blue-origin-flight-wally-funk-mercury-scni/index.html>

#### Virgin Galactic

<https://www.virgingalactic.com/>

<https://www.tagesschau.de/wirtschaft/richard-branson-virgin-galactic-jeff-bezos-blue-origin-weltraum-101.html>

#### Unity 22 mission

<https://www.virgingalactic.com/articles/virgin-galactic-announces-first-fully-crewed-spaceflight>

<http://www.collectspace.com/news/news-070121a-virgin-galactic-unity22-branson.html>

#### Voyager Station Orbital Assembly

<https://voyagerstation.com/visit-voyager>

<https://edition.cnn.com/travel/article/voyager-station-space-hotel-scn/index.html>

<https://www.gq-magazin.de/lifestyle/artikel/check-in-im-weltraum-dieses-hotel-macht-es-moeglich-und-es-ist-fuer-2027-geplant>

<https://thehill.com/opinion/technology/543106-will-a-space-hotel-actually-be-open-for-business-in-2027>

<https://newatlas.com/space/orbital-assembly-corporation>

#### Axiom Space

<https://www.axiomspace.com>

<https://spaceflightnow.com/2021/06/09/axiom-signs-deal-with-spacex-for-three-more-private-crew-missions/>

<https://www.skynews.com.au/world-news/axiom-space-to-take-three-more-astronauts-up-to-iss/video/5072f47e0e9563df7301c72c94d7ee00>

<https://www.wiwo.de/my/technologie/forschung/tourismus-vier-private-missionen-zur-iss-plant-axiom-space-in-den-naechsten-jahren/27271744-2.html>

#### Weltraumtourismus allgemein

<https://nymag.com/intelligencer/article/space-tourism-bezos-explainer.html>

<https://theconversation.com/space-tourism-20-years-in-the-making-is-finally-ready-for-launch-159606>

#### Inspiration 4

<https://inspiration4.com>

## SpaceX – Zurück in die Zukunft?

SpaceX

<https://www.spacex.com>

Multi Planetary Species

<https://youtu.be/tdUX3ypDVwl>

Starship

<https://www.spacex.com/vehicles/starship/>

[https://de.wikipedia.org/wiki/Starship\\_\(Rakete\)](https://de.wikipedia.org/wiki/Starship_(Rakete))

[https://en.wikipedia.org/wiki/SpaceX\\_Starship\\_development\\_history#Starship\\_SN11](https://en.wikipedia.org/wiki/SpaceX_Starship_development_history#Starship_SN11)

Ocean Launch Plattform

<https://www.cnbc.com/2021/01/19/spacex-bought-former-valaris-oil-rigs-to-build-starship-launchpads.html>

<https://www.tesmanian.com/blogs/tesmanian-blog/spaceport-at-sea>

<https://newsabc.net/aite-infrastructure-for-mars-project-spacex-buys-oil-rigs-at-a-bargain-price/>

News-Quellen zu SpaceX

<https://www.teslarati.com/category/spacex/>

[https://www.youtube.com/channel/UC6uKrU\\_WqJ1R2HMTY3LIx5Q](https://www.youtube.com/channel/UC6uKrU_WqJ1R2HMTY3LIx5Q)

<https://twitter.com/bocachicagal>

## Mars – Stossverkehr am roten Planeten

Indien

<https://www.isro.gov.in/>

<https://www.isro.gov.in/pslv-c25-mars-orbiter-mission>

[https://de.wikipedia.org/wiki/Mars\\_Orbiter\\_Mission](https://de.wikipedia.org/wiki/Mars_Orbiter_Mission)

<https://www.newindianexpress.com/galleries/2013/oct/31/ISROs-Mars-Orbiter-Mission-1821--1.html>

ExoMars Trace Gas Orbiter

[https://www.esa.int/Space\\_in\\_Member\\_States/Germany/Trace\\_Gas\\_Orbiter\\_erforscht\\_den\\_Mars](https://www.esa.int/Space_in_Member_States/Germany/Trace_Gas_Orbiter_erforscht_den_Mars)

<https://exploration.esa.int/web/mars/-/46475-trace-gas-orbiter>

<https://www.cassis.unibe.ch/>

### UAE Hope Mission

<https://www.emiratesmarsmission.ae/>

<https://www.space.com/mars-aurora-discovery-uae-hope-mission>

<https://gulfnews.com/uae/year-of-the-50th/uaes-space-journey-from-desert-dunes-to-mars-and-beyond-1.79745481>

### NASA Mars Missionen

<https://mars.nasa.gov/mars2020/timeline/landing>

### Perseverance

<https://mars.nasa.gov/mars2020/>

<https://mars.nasa.gov/resources/25042/mars-perseverance-rover-3d-model/>

[https://de.wikipedia.org/wiki/Mars\\_2020](https://de.wikipedia.org/wiki/Mars_2020)

### Maxon Motor Schweiz

<https://www.maxongroup.ch/maxon/view/news/Schweizer-Präzisionsmotoren-bewegen-die-wertvollen-Mars-Bodenproben>

<https://www.maxongroup.ch/maxon/view/news/n-maxon-gratuliert-zur-erfolgreichen-Marslandung-des-Perseverance-Rovers>

<https://www.maxongroup.ch/maxon/view/news/driven-blickt-zum-4-Planeten>

### Ingenuity

<https://mars.nasa.gov/technology/helicopter/status/>

<https://www.jpl.nasa.gov/missions/ingenuity>

<https://mars.nasa.gov/resources/25043/mars-ingenuity-helicopter-3d-model/>

### China – Neue Weltraummacht

#### Chinesischer Raumanzug:

<http://www.astronautix.com/c/chinesespacesuit.html>

#### Raumstation

[https://de.wikipedia.org/wiki/Chinesische\\_Raumstation](https://de.wikipedia.org/wiki/Chinesische_Raumstation)

<https://newatlas.com/space/tiangong-space-station-first-crew-launch-china/>

<https://www.insider.com/chinese-astronauts-first-spacewalk-tiangong-space-station-2021-7>

#### Mars-Mission Tianwen-1

<https://de.wikipedia.org/wiki/Tianwen-1#Missionsziele>

<https://www.srf.ch/news/panorama/raumschiffmodul-tianwen-1-china-landet-erstmals-mit-rover-zhurong-auf-dem-mars>

#### Mond-Missionen

[https://de.wikipedia.org/wiki/Chang%E2%80%99e\\_3](https://de.wikipedia.org/wiki/Chang%E2%80%99e_3)

[https://de.wikipedia.org/wiki/Jadehase\\_\(Rover\)](https://de.wikipedia.org/wiki/Jadehase_(Rover))

[https://de.wikipedia.org/wiki/Chang%E2%80%99e\\_4](https://de.wikipedia.org/wiki/Chang%E2%80%99e_4)

[https://de.wikipedia.org/wiki/Chang%E2%80%99e\\_5](https://de.wikipedia.org/wiki/Chang%E2%80%99e_5)

### Mars Station Wüste Gobi

<https://youtu.be/6WGRtKXRQzk>

<https://www.theatlantic.com/photo/2019/04/photos-mars-gobi-desert/587353/>

<https://www.globaltimes.cn/content/1146572.shtml>

### Bemannte Marsmission bis 2033

<https://www.aljazeera.com/news/2021/6/24/china-plans-for-first-manned-mission-to-mars-in-2033>

<https://www.globaltimes.cn/page/202106/1226925.shtml>

### Mondbasis ILRS

[https://en.wikipedia.org/wiki/International\\_Lunar\\_Research\\_Station](https://en.wikipedia.org/wiki/International_Lunar_Research_Station)

<https://spacenews.com/china-russia-reveal-roadmap-for-international-moon-base/>

## **Artemis & Co. – Der neue Wettlauf zum Mond**

### Artemis

<https://www.nasa.gov/artemisprogram>

<https://de.wikipedia.org/wiki/Artemis-Programm>

<https://exploredeepspace.com/deep-space-mission/artemis-missions/>

<https://spacenews.com/lunar-exploration-as-a-service-from-landers-to-spacesuits-nasa-is-renting-rather-than-owning/>

### SLS Space Launch System

[https://de.wikipedia.org/wiki/Space\\_Launch\\_System](https://de.wikipedia.org/wiki/Space_Launch_System)

<https://www.nasa.gov/exploration/systems/sls/index.html>

<https://www.bbc.com/news/science-environment-54156798>

<https://www.bbc.com/news/science-environment-57446686>

### NASA-Entscheid für SpaceX

<https://www.space.com/nasa-artemis-moon-lander-spacex-blue-origin-protests>

<https://youtu.be/y-sA3R4MWjA>

<https://arstechnica.com/science/2021/06/nasa-administrator-to-defend-lunar-budget-before-a-skeptical-congress/>

### Dynetics

<https://dyneticshls.com/>

### Blue Origin – Blue Moon

<https://www.blueorigin.com/blue-moon/>

### SpaceX Moon

<https://www.spacex.com/human-spaceflight/moon/index.html>

<https://www.spacex.com/updates/starship-moon-announcement/index.html>



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