

Governor customary address

Governor's Address to the State Legislature:

- **Article 176 of the Constitution**

- At the commencement of the first session after each general election to the Legislative Assembly and at the commencement of the first session of each year, the Governor shall address the Legislative Assembly and inform the Legislature of the causes of its summons.

- In the case of a State having a Legislative Council, both Houses assembled together.

- Provision shall be made by the rules regulating the procedure of the House or either House for the allotment of time for discussion of the matters referred to in such address.

- The Governor's customary address to the legislature at the first session of every year is being increasingly politicised.

- Anyone who understands the Governor's role in a parliamentary democracy will know that it is the one declining to read out the address prepared by an elected government who reduces the address to a travesty.

- Governments are run by parties that contest elections on a political platform, and it is only to be expected that they would seek to trumpet their achievements, real or exaggerated, in policy statements.

- It is the role of the political opposition and the people to judge the content of the address and not that of the Governor.

- A simple test to ascertain the tenability of Mr. Ravi's claim that he declined to read out the customary address on factual and moral grounds.

- it is not constitutionally sustainable to claim that the Governor's address should contain no criticism of the Centre or make no policy pronouncements against the Centre's policies.

- The larger issue is still the propensity of Governors to act as political agents of the ruling party at the Centre.

- It is an unfortunate feature of India's constitutional system that the country is never short of grey eminences eager to occupy the gubernatorial office, but once appointed, they are equally eager to enter the political thicket.

- The Hindu

Delhi declaration on gender equality



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G. Gender Equality and Empowering All Women and Girls

63. The G20 reaffirms that gender equality is of fundamental importance, and that investing in the empowerment of all women and girls, has a multiplier effect in implementing the 2030 Agenda.

Enhancing Economic and Social Empowerment

64. We encourage women-led development and remain committed to enhancing women's full, equal, effective, and meaningful participation as decision makers for addressing global challenges inclusively and in contributing as active participants in all spheres of society, across all sectors and at all levels of the economy, which is not only crucial for achieving gender equality, but also for contributing to global GDP growth. To this end, we:

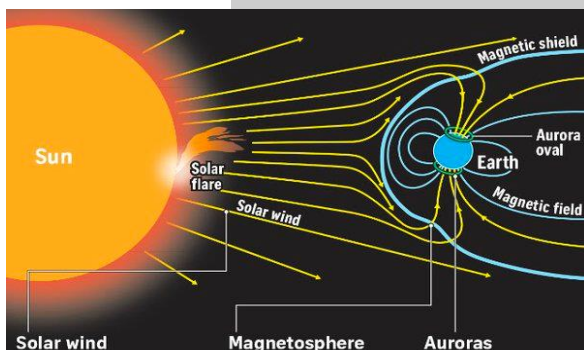
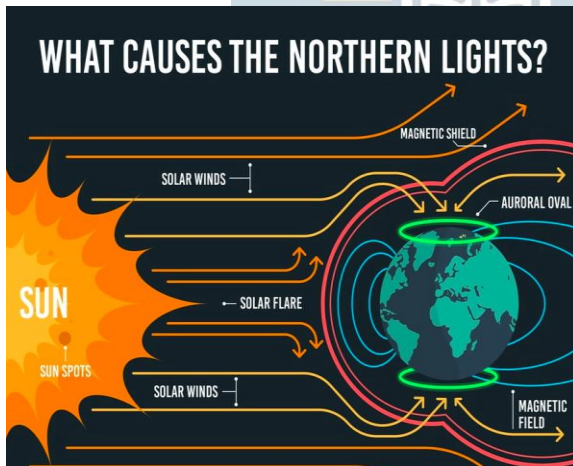
- Reaffirm our commitment to achieving the Brisbane Goal to reduce the gap in labour force participation and implementing the G20 Roadmap Towards and Beyond the Brisbane Goal '25 by 25' and ask the ILO and OECD to report progress annually.
- Ensure equal access to affordable, inclusive, equitable, safe and quality education from early childhood through higher education to lifelong learning and support the greater enrolment, participation and leadership of all women and girls, including those with disabilities, in STEM fields and in emerging digital technologies.
- Take steps to promote the full and meaningful participation of women in a transitioning world of work by enabling inclusive access to employment opportunities, with a focus on closing the gender pay gap and ensuring women's equal access to decent work and quality jobs.

- Promote investment in the availability and accessibility of social protection, and to affordable care infrastructure to address the unequal distribution in paid and unpaid care and domestic work and to promote the continued participation of women in education and employment.
- Commit to eliminate gender-based violence including sexual violence, harassment, discrimination and abuse against women and girls both online and offline, and ensure safe workplaces in this regard.
- Promote women's inclusion into the formal financial system by strengthening their access to economic resources, particularly through digital finance and microfinance.
- Eliminate gender stereotypes and biases, and change norms, attitudes and behaviours that perpetuate gender inequality.

Auroras
TO UPSC BRILLIANCE



Vast canvas: Aurora borealis, commonly called the northern lights, illuminate the sky above the village of Akaslompolo in Kolari, beyond the Arctic Circle, in Finland on Sunday. AP



The Hindu

Event horizon telescope, event horizon, and Gravitational lensing



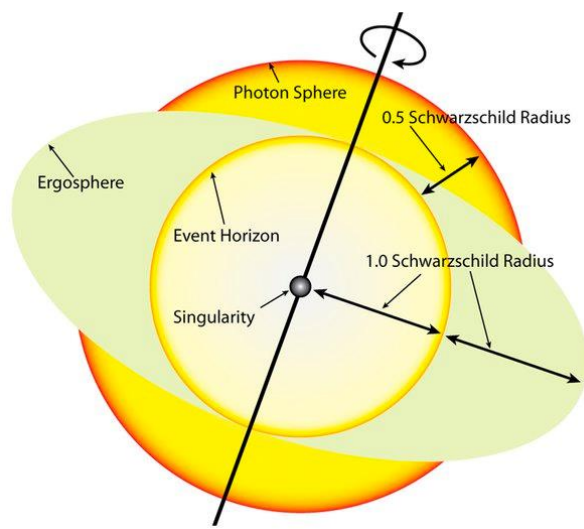
Event Horizon telescope

- The Event Horizon Telescope (EHT) Collaboration is a group of observatories united to image the emission around supermassive black holes.
- The Event Horizon Telescope (EHT) is a large [telescope array](#) consisting of a global network of [radio telescopes](#).
- The project's observational targets include the two [black holes](#) with the largest [angular diameter](#) as observed from Earth: the black hole at the center of the [supergiant elliptical galaxy Messier 87](#) and [Sagittarius A*](#) at [the center](#) of the [Milky Way](#)
- The Event Horizon Telescope project is an international collaboration that was launched in 2009 after a long period of theoretical and technical developments.

- The collaboration now comprises over 300 members, and 60 institutions, working in over 20 countries and regions.

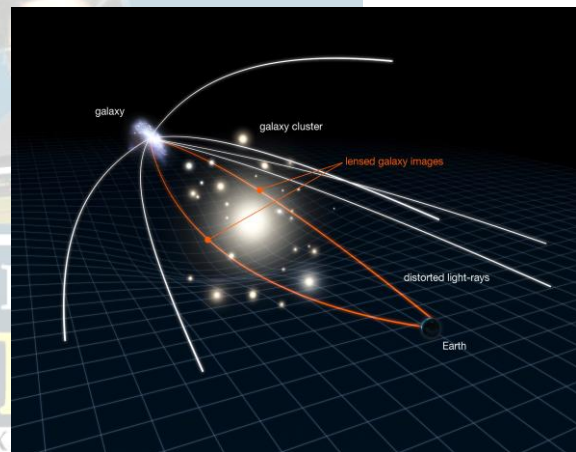
What is event Horizon?

- The event horizon is the spherical outer boundary of a [black hole](#) loosely considered to be its "surface."
- It is the point, [according to NASA](#), that the gravitational influence of the black hole becomes so great that not even light is fast enough to escape it.
- As a result of the fact that [Albert Einstein's theory of special relativity](#) tells us that no signal can exceed the [speed of light](#) in a vacuum (c) humanity can never hope to obtain a signal from the one-way boundary that is an event horizon.



- [What is gravitational lensing??](#)

- It occurs when a massive celestial body, such as a galaxy cluster, causes a sufficient curvature of spacetime for the path of light around it to be visibly bent, as if by a lens.
- The body causing the light to curve is accordingly called a gravitational lens. An important consequence of this lensing distortion is magnification, allowing us to observe objects that would otherwise be too far away and too faint to be seen.



- [UPSC BRILLIANCE](#)
 - a. Gravitational Lensing was first predicted in 1915 by Albert Einstein, which involves the bending of light by objects of great mass.
 - b. According to Einstein's general theory of relativity, time and space are fused together in a quantity known as spacetime.
 - c. Within this theory, massive objects cause spacetime to curve, and gravity is simply the curvature of spacetime.

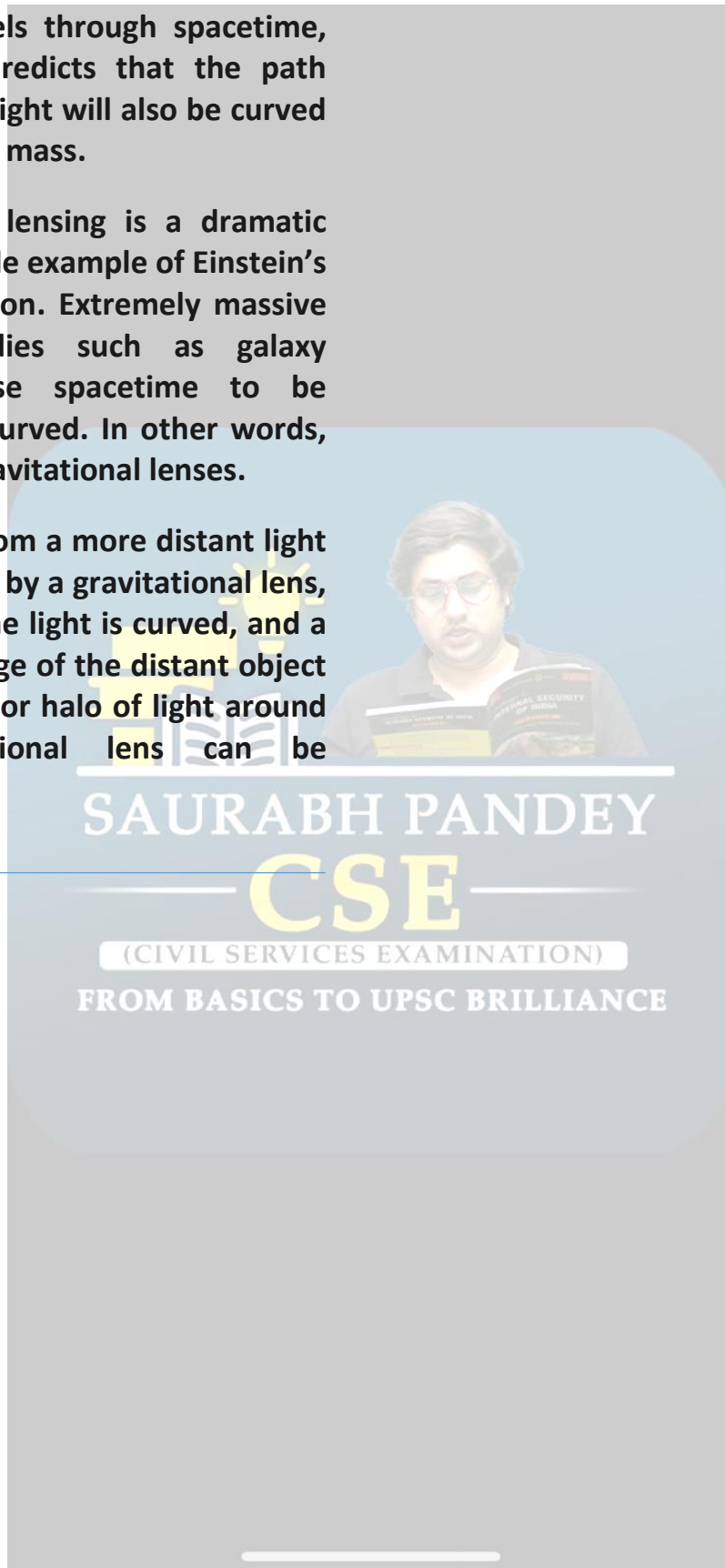
The Hindu, 13th February 2024, SP sir

As light travels through spacetime, the theory predicts that the path taken by the light will also be curved by an object's mass.

Gravitational lensing is a dramatic and observable example of Einstein's theory in action. Extremely massive celestial bodies such as galaxy clusters cause spacetime to be significantly curved. In other words, they act as gravitational lenses.

When light from a more distant light source passes by a gravitational lens, the path of the light is curved, and a distorted image of the distant object maybe a ring or halo of light around the gravitational lens can be observed.

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