

Nova

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A nova is a transient astronomical event that causes the sudden appearance of a bright, apparently "new" star (hence the name "nova", Latin for "new") that slowly fades over weeks or months. All observed novae involve white dwarfs in close binary systems, but causes of the dramatic appearance of a nova vary, depending on the circumstances of the two progenitor stars. The main sub-classes of novae are classical novae, recurrent novae (RNe), and dwarf novae. They are all considered to be cataclysmic variable stars.

Classical nova eruptions are the most common type. This type is usually created in a close binary star system consisting of a white dwarf and either a main sequence, subgiant, or red giant star. If the orbital period of the system is a few days or less, the white dwarf is close enough to its companion star to draw accreted matter onto its surface, creating a dense but shallow atmosphere. This atmosphere, mostly consisting of hydrogen, is heated by the hot white dwarf and eventually reaches a critical temperature, causing ignition of rapid runaway fusion. The sudden increase in energy expels the atmosphere into interstellar space, creating the envelope seen as visible light during the nova event. In past centuries such an event was thought to be a new star. A few novae produce short-lived nova remnants, lasting for perhaps several centuries.

A recurrent nova involves the same processes as a classical nova, except that the nova event repeats in cycles of a few decades or less as the companion star again feeds the dense atmosphere of the white dwarf after each ignition, as in the star T Coronae Borealis.

Under certain conditions, mass accretion can eventually trigger runaway fusion that destroys the white dwarf rather than merely expelling its atmosphere. In this case, the event is usually classified as a Type Ia supernova.

Novae most often occur in the sky along the path of the Milky Way, especially near the observed Galactic Center in Sagittarius; however, they can appear anywhere in the sky. They occur far more frequently than galactic supernovae, averaging about ten per year in the Milky Way. Most are found telescopically, perhaps only one every 12–18 months reaching naked-eye visibility. Novae reaching first or second magnitude occur only a few times per century. The last bright nova was V1369 Centauri, which reached 3.3 magnitude on 14 December 2013.

Nova (disambiguation)

Look up Nova, nova, or novas in Wiktionary, the free dictionary. A nova is an exploding star. Nova or NOVA may also refer to: Nova (fairy), in the American

A nova is an exploding star.

Nova or NOVA may also refer to:

NOvA

oscillation of muon neutrinos to electron neutrinos. The primary physics goals of NOvA are: Precise measurement, for neutrinos and antineutrinos, of the mixing

The NOvA (NuMI Off-Axis ν e Appearance) experiment is a particle physics experiment designed to detect neutrinos in Fermilab's NuMI (Neutrinos at the Main Injector) beam. Intended to be the successor to MINOS, NOvA consists of two detectors, one at Fermilab (the near detector), and one in northern Minnesota (the far detector). Neutrinos from NuMI pass through 810 km of Earth to reach the far detector. NOvA's main goal is to observe the oscillation of muon neutrinos to electron neutrinos. The primary physics goals of NOvA are:

Precise measurement, for neutrinos and antineutrinos, of the mixing angle θ_{23} , especially whether it is larger than, smaller than, or equal to 45°

Precise measurement, for neutrinos and antineutrinos, of the associated mass splitting Δm_{23}^2

Strong constraints on the CP-violating phase δ

Strong constraints on the neutrino mass hierarchy

Nova Scotia

Nova Scotia is a province of Canada, located on its east coast. It is one of the three Maritime provinces and most populous province in Atlantic Canada

Nova Scotia is a province of Canada, located on its east coast. It is one of the three Maritime provinces and most populous province in Atlantic Canada, with an estimated population of over 1 million as of 2024; it is also the second-most densely populated province in Canada, and second-smallest province by area. The province comprises the Nova Scotia peninsula and Cape Breton Island, as well as 3,800 other coastal islands. The province is connected to the rest of Canada by the Isthmus of Chignecto, on which the province's land border with New Brunswick is located.

Nova Scotia's capital and largest municipality is Halifax, which is home to over 45% of the province's population as of the 2021 census. Halifax is the twelfth-largest census metropolitan area in Canada, the largest municipality in Atlantic Canada, and Canada's second-largest coastal municipality after Vancouver.

The land that makes up what is now Nova Scotia was inhabited by the Mi'kmaq people at the time of European colonization. In 1605, Acadia—France's first New France colony—was founded with the creation of Acadia's capital, Port Royal. The Scots, English, then British, fought France for the territory on numerous occasions for over a century afterwards, having gained it from them in the 1713 Peace of Utrecht, which ended the War of the Spanish Succession. In subsequent years, the British began settling "foreign Protestants" in the region and deported the French-speaking Acadians en masse. During the American Revolutionary War (1775–1783), thousands of Loyalists settled in Nova Scotia.

In 1848, Nova Scotia became the first British colony to achieve responsible government. In July 1867, Nova Scotia joined in Confederation with New Brunswick and the Province of Canada (now Ontario and Quebec), forming the Dominion of Canada (now just called "Canada").

Northern Virginia

Northern Virginia, locally referred to as NOVA or NoVA, comprises several counties and independent cities in the Commonwealth of Virginia in the United States

Northern Virginia, locally referred to as NOVA or NoVA, comprises several counties and independent cities in the Commonwealth of Virginia in the United States. The region radiates westward and southward from Washington, D.C., the nation's capital, and has a population of 3,257,133 people as of 2023 U.S. Census Bureau estimates, representing over a third of the state's total population. It is the most populous region in both Virginia and the regional Washington metropolitan area.

Communities in the region form the Virginia portion of the Washington metropolitan area and the larger Washington–Baltimore metropolitan area. Northern Virginia has a significantly larger job base than either Washington, D.C. or the Maryland portion of its suburbs, and is the highest-income region of Virginia, with several of the highest-income counties in the nation, including three of the ten highest counties for median household income, according to the 2019 American Community Survey.

Northern Virginia's transportation infrastructure includes two major airports, Ronald Reagan Washington National and Dulles International Airport, several lines of the Washington Metro subway system, the Virginia Railway Express suburban commuter rail system, transit bus services, bicycle sharing and bicycle lanes and trails, and an extensive network of Interstate highways and expressways.

The Pentagon, the headquarters of the U.S. Department of Defense and the world's second-largest office, is located in Arlington County in Northern Virginia. Northern Virginia also houses the George Bush Center for Intelligence, the headquarters for the Central Intelligence Agency in Langley, the United States Patent and Trademark Office in Alexandria, and several large companies, including several major aerospace manufacturing, consulting firms, and defense industry, which serve it and other components of the U.S. federal government.

Tourist attractions in Northern Virginia include various memorials, museums, and Colonial and Civil War-era sites, including Arlington National Cemetery, Fredericksburg and Spotsylvania National Military Park, Manassas National Battlefield Park, Mount Vernon, the National Museum of the Marine Corps, the National Museum of the United States Army, the Udvar-Hazy Center of the National Air and Space Museum, and the United States Marine Corps War Memorial. Other attractions include portions of the Appalachian Trail, Great Falls Park, Old Town Alexandria, Prince William Forest Park, and portions of Shenandoah National Park.

Halifax, Nova Scotia

is the capital and most populous municipality of the Canadian province of Nova Scotia, and the most populous municipality in Atlantic Canada. As of 2024

Halifax is the capital and most populous municipality of the Canadian province of Nova Scotia, and the most populous municipality in Atlantic Canada. As of 2024, it is estimated that the population of the Halifax CMA was 530,167, with 348,634 people in its urban area. The regional municipality consists of four former municipalities that were amalgamated in 1996: Halifax, Dartmouth, Bedford, and Halifax County.

Halifax is an economic centre of Atlantic Canada, home to a concentration of government offices and private companies. Major employers include the Department of National Defence, Dalhousie University, Nova Scotia Health Authority, Saint Mary's University, the Halifax Shipyard, various levels of government, and the Port of Halifax. Resource industries found in rural areas of the municipality include agriculture, fishing, mining, forestry, and natural gas extraction.

Nõva

Nõva may refer: Nõva, Lääne County, village in Lääne-Nigula Parish, Lääne County Nõva, Tartu County, village in Peipsiääre Parish, Tartu County Nõva Parish

Nõva may refer:

Bossa nova

Bossa nova (Portuguese pronunciation: [ˈbɔsɐ ˈnɔvɐ]) is a relaxed style of samba developed in the late 1950s and early 1960s in Rio de Janeiro, Brazil

Bossa nova (Portuguese pronunciation: [ˈbɔsɐ ˈnɔvɐ]) is a relaxed style of samba developed in the late 1950s and early 1960s in Rio de Janeiro, Brazil. It is mainly characterized by a calm syncopated rhythm with chords and fingerstyle mimicking the beat of a samba groove, as if it was a simplification and stylization on the guitar of the rhythm produced by a samba school band. Another defining characteristic of the style is the use of unconventional chords in some cases with complex progressions and "ambiguous" harmonies. A common misconception is that these complex chords and harmonies were derived from jazz, but samba guitar players have been using similar arrangement structures since the early 1920s, indicating a case of parallel evolution of styles rather than a simple transference from jazz to bossa nova. Nevertheless, bossa nova was influenced by jazz, both in the harmonies used and also by the instrumentation of songs, and today many bossa nova songs are considered jazz standards. The popularity of bossa nova has helped to renew samba and contributed to the modernization of Brazilian music in general.

One of the major innovations of bossa nova was the way to synthesize the rhythm of samba on the classical guitar. According to musicologist Gilberto Mendes, the bossa nova was one of the "three rhythmic phases of samba", in which the "bossa beat" had been extracted by João Gilberto from the traditional samba. The synthesis performed by Gilberto's guitar was a reduction of the "batucada" of samba, a stylization produced from one of the percussion instruments: the thumb stylized a surdo; the index, middle and ring fingers phrased like a tamborim. In line with this thesis, musicians such as Baden Powell, Roberto Menescal, and Ronaldo Bôscoli also understand the bossa nova beat as being extracted from the tamborim play in the bateria.

Nova TV

(defunct) Nova Televisión, Colombia Nova TV (Croatia) TV Nova (Czech Republic) Nova Cinema (Czech Republic) Nova Sport (Czech Republic and Slovakia) Nova (Greece)

Nova TV may refer to the following television channels:

Nova BH, Bosnia and Herzegovina

Nova (Bulgarian TV channel)

Nova Sport (Bulgaria)

Nova+, Bulgaria (defunct)

Nova Televisión, Colombia

Nova TV (Croatia)

TV Nova (Czech Republic)

Nova Cinema (Czech Republic)

Nova Sport (Czech Republic and Slovakia)

Nova (Greece)

Nova Cinema (Greece)

Novasports

Nova TV (Iceland)

Nova M, Montenegro

TV Nova (North Macedonia) (defunct)

TV Nova (Kumanovo) (defunct)

Nova TV (Romania)

Nova (Serbia), Serbia

Nova.rs

Nova (Spanish TV channel)

Nova Rockafeller

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