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## The Royal Institution

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### Word tags

psychedelics, string theory, jazz, william herschel, springs, salt, mathematical proofs lecture, free, dna tani, room illusion, debate, trauma, bird flu, fake poo, einstein, soap, healthy weight, resonance circuit, Calcium Carbonate, Migration, power of the sun, history of coding, Static, i contain multitudes, Satellite, pain relief, Magnetism (Literature Subject), kitrid, lego universe, Anthropology (Literary Genre), Psychiatry (Medical Specialty), quantum fields, bottle rockets, psychology experiments, mint, human, andrew syzdlo, ethics, behaviour change, philosophy, Disintegrating, motion, DIY science, hypergolic, obesity, fifa, schizophrenia, nano, bioethics, elements, olfactory, action potential, Tyrannosaurus, Olympics, spring, pinhole camera, dark universe, walter bodmer, sir paul nurse, explanatory gap, ET, humans, probability, medlife crisis q&a, sylvia mclain, Large Hadron Collider (Exhibition Subject), Contact Explosive, Everest, explosions in space, quantum computing, optical, how fast does the ISS move, aspergers, iodine, petri dish, communities, Chemistry, Math, engineer, Multiverse, geochemistry, memorial, nose to diagnose, how candles work, Particles, vint cerf, neutrino (subatomic particle), liquid, World War I (Military Conflict), myth, baby boomer, how to entertain, slow motion, see, arts, Science Demo, veronica okeane psychiatrist, Elements, wiring, pattern seeking, condensed-matter physics, galileo, aoife mclysaght, Diamond, biotechnology, seasons, science with children, Von Willebrand, p vs np, maths, david tong, lichtenberg, Crashes, extra terrestrial, interactive, project, infection, End of the World, fireball, royal institute lectures, accident, how will technology change, Solar Energy (Industry), Elizabeth Stokoe, Cement, einstein illusion, Paul trap, biomedicine, brain laterlization, genetic drift and natural selection, ticklish, helen scales, ancestry, block, NI3, linda geddes, longform, Density, modelling and simulation computer science, drake equation, spirit, antibiotics, aircraft, Advent, women in stem, nuclear physics, sustainability, play doh, experimental art, paleantology, Prevention, difference between, differences, build, what are particle accelerators used for, yang mills and mass gap, make children think scientifically, lasers, Sheffiled Hallam, Earth, resurrect, batteries, biomechanics, youtube, Neuroscience, fun chemistry experiment, sleep, contagious, fly, Engineer (Job Title), rainy day, feeling, children, entropy, homo deus, how to teach, marine biology, kevin buzzard, stem cell therapy, Fuel efficiency, bacteria, end of the universe, king richard, materials science, potassium hydroxide, 13.8, Jim Baggott, hippocampus, space launch, science lecture, science experiments for children, paradox, nutrition, time travel, Raquet, morten kringelbach, Stroop, War (Quotation Subject), nitrous oxide, end of time, parents, mars, dopamine, mat, economics, solar wind, magnets, first colour image from webb, 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thinkers, poetry, memes, zero gravity, stats, DIY, x-rays, survival of the fittest, future circular collider, Geek Week, mark miodownik, zeroth, tim peake, birthday problem probability, history, Sean Carroll, mortimer, the big rip, caroline dean, sun spot, chytrid fungus spreaded by humans, CMS, radiotherapy, shells, play, spoken word, Climatology (Field Of Study), father of electricity, cico, physics, capacitor, steve mould, Mobile, weekend, Ultraviolet, Drum Kit (Musical Instrument), pringles, dinosaurs, geometry, Society (Quotation Subject), is it summer in, catching, green, colin stuart physics, Perception, animal senses, speed of light, black fire, to do at home, flour, Magenta, with children, cosmodrome, wheel, black hole, lord willetts, hyperbolic geometry, Helen Sharman, particle accelerato, Pumpkin (Ingredient), bounce, microwave, kit yates maths of life and death, the bounce, anatomy, cc, Astronaut (Profession), performance modelling computer science a levle, neutralino, space weather report, philosophy of cosmology, syndrome, black holes, velocity, Rays, gunshot residue (gsr), Anil Seth, nanotehnology, primary, Fireworks, work, biking, fundamental physics, computing, The Selfish Gene (Book), rules of contagion, vitamin d, leidenfrost effect, how does proton therapy work, prep room, Particle accelerator, Adam Riess, worms, crick, Faraday, winter, gerd gigerenzer, chainsaw, law of thermodynamics, saturn, flying, glass, Tesla Coil (Invention), solution, quantum field theory, gunshot residue analysis, can you cook cupcakes in microwave, space weather, science of weight loss, the knowledge machine, robert llewellyn, something from nothing, second law of thermodynamics, experiments, facebook, iron, geography, traffic waves, holocene, frank close, Jerry Hall, Apes, ribosome, jim al-khalili, First, outbreak, liquid soap, baikonur, how risky is, Steve Mould, combustion engine, Apocalypse, things to do with, W D Hamilton, remove shell, make pepper move, dave blank, drugs, artificial life, 1 million subscribers, nuclear fusion reactor, momentum, spillover event, frontal, Royal Institution, data science, Kathryn D Sullivan, alcohol, dan kaszeta, cooking, good bacteria, Black Hole (Celestial Object Category), spin, twitter, world's strongest laser, yang-hui he math, rupture, fossilisation, helen czerski, Burning, jack o lantern, jet lag, marc lewis, jenni adams, artifical intelligence, piss, body illusion, watson, free activity, particle acclerators, Steve Haake, handmade, discovery, ice crystals, infrared, smell, Lysozyme, many worlds, Blood suckers, future food, lyman page on cosmology, Jessica Rowson, body weight, nicholas humphrey, closed captions, spread out, mathematics, Earth (Planet), supernatural, space travel, scratching, robin hiesinger, Solids, music theory, Match, X-ray, neuroscience, cmb, wine glass harmonica, temperature, Monkeys, Kids (Film), gina rippon, special effects, Teeth, parkinsons disease, environment, royal institution brain, illusion, bus, beth shapiro, apocalypse, genetics, artur ekert, natural selection, Physics (Field Of Study), blood, higgs, water trick, galaxy filament, cannons, seratonin, University of Cambridge, many worlds interpretation, futurism, military, fossils, first law, Genetic Disorder (Disease Or Medical Condition), liquid nitrogen, jules montague, space, piano, millennials, how do snowflakes form, activity for children, newton, cups, geraint lewis, cell biology, supersaturated, Space Station, human brain, adam kucharski, jo marchant, Bristol, memory formation in brain, UV, Fashion (Industry), private funding, at, liverpoolfc, cream, satellite, activities for parents and kids, Xtreme, math, sound, McGurk, make your own, royal institution lectures, rocks, zero G, Mir, q&A, Developmental Biology, philip ball book of minds, nichola raihani the social instinct, missing fundamental frequency, simple, tradition, Quarks, folding, stress, overweight, isis neutron and muon, Theater, end of the world, mammoth, radioactivity, candle magic, light pollution, underwater, Vincent Walsh, mini, microbes, Burn, Structural Biology, art, Loserville, black holes 101, vomitting pumpkin, how to build a universe, lewis dartnell, dark matter, philosophy of science, 21, ultra intense, Printing, emily grossman, scientism, science project, frank wilczek, Population, lsd, Boom, Elspeth Garman, My, urine, phd, Barry Smith, tin, Quantum Mechanics, types of, uses of space travel, poker, AKU, complete combustion, kinetic energy, 3D Printer, cultural, Mount Everest (Mountain), schrodinger’s cat, Reactive, Gold, i think therefore i am, Titanium, vacuum death, magic trick, gambling, Diesel, antarctica, Humphry Davey, jean francois clervoy, rocket, Rpi, Topology (Field Of Study), Bicycle, mars rover, Walsh, paul shearing, genetic drift evolution, argument, end of everything, debunking, missing fundamental, washing up liquid, spaghettified, data, do the math, BRCA2, calum hervieu, standard model of particle physics, Nitrogen Triiodide, thoughts, volcano, catapults, renee hlozek, yang-hui he, when you're born, humphry davy, Theatre, Wonder, helen sharman, photorecep, phantom fundamental, disco, juggling, Biology, Liquids, Tara Shears, quantum, words, gluon, Fever (Symptom), Ri, land on feet, galaxy, algorithm, dan hooper, relative risk, cheating, solar, carl sagan, fermi, harry buhrman, TMS, smoke, proteins, meaning of dreams, iron oxide, psilocybin, Passenger Pigeon (Organism Classification), fiber optics, brit lab, science of magic, Line, Butterflies, kate mulcahy, jo dunkley, what is dark matter in universe, Atomic structure, Quantum Theory of Computation, bbq, chiara marletto, energy, WWI, watch, body clock, Trains, Higgs Boson, giant, gait, zero g, superconductor, Bloodstream, Tyrannosaurus Rex, cool science experiment, Tennis (Sport), opium, experiencing the impossible, laryngoscopy, stressful, mutliverse, particle accelerator, complementarity, microbiome, lyman page, royal institute, richard dawkins, cascades, grow, birth of the universe, levitation, Vampires, activity for kids, dna, when nature breaks the law, post traumatic stress disorder, discussion, Refuelling, Combustion, electricity, Hirudinea, experiment for kids, light, science of happiness, Nepal, lepton universality, marcus du sautoy, IQ tests, science of dogs documentary, royal institution periodic table, launch, Brain, robot ethics, Lawrence Bragg, Large Hadron Collisder, waves, Prep Room, on, Double Goggle, david pye, andrew szydlo, smelling parkinsons disease, what do you weigh in space, mathematical proofs introduction, applications of particle, Bruce, War, to, fireworks, carlo rovelli, Colour, ecosystems, experiment for children, Aoife McLysaght, serengeti, health, Cancer treatments, torus, pandemic, first contact, dewar, culture, Corona, mobility, stem cell, pepper, helicopter, thermal imaging, causation, pee, artistic, Royal Institute, Circus, genetic drift adn naturual selection, nuclear fusion explained, Gas, Electrons, Liz, family activity, bonds, psychology, particle physics, solar power, Amonia, left handed, Human genome, cryptography, hodge conjecture, calories in calories out, Alice, Sport, ben miller, engineering and synthetic biology, mathematical proofs practice, bad diet, Alkali Metal, science show, gustav kuhn, Science Communication, bad data, search for, chat gpt, thermal camera, Kathleen Lonsdale, veronica okeane, Biology (Media Genre), poo, seti, andrew szydlo chemistry, cryo, antimatter, hemisphere, GSK, humanity, satellites in space, Evolutionary Biology (Field Of Study), fat gene, longevity, Great Inferno, Tennis, fully charged

### Statistics

* **Video Count:** 1156
* **Total Views:** 202623026
* **Total likes:** 1476738
* **Comments Count:** 125983
* **Videos Average Duration:** 28

# Top and worst videos

## Top videos

### Top videos info

#### How to fool Chat GPT with non-linear thinking #chatgpt

**Description:** Watch mathematician Kit Yates describe the problem with linear thinking and Chat GPT. Watch the full video here: https://youtu.be/ehXZHY\_jgI0

**Statistics:** 10086886 views, 293398 likes, 1 minutes

#### The ghost particle: searching for the mysterious neutrino - with James Riordon

**Description:** What's the history and science behind the pursuit of the ghostly subatomic particle, the neutrino?  
  
Watch the Q&A (exclusively for channel members) here: https://youtu.be/IBnN26eKnLY  
Buy James's book here: https://geni.us/h32Bb  
  
This lecture was recorded on 17 August 2023.  
  
With approximately 100 trillion neutrinos passing through us every second, these particles hold the key to unlocking some of the Universe's greatest mysteries. From the discovery of neutrinos and their role in illuminating the Universe through neutrino telescopes to the challenges of detecting this elusive particle, this lecture explores the science behind the ghost particle.  
  
Additionally, we will explore the potential of neutrinos to answer some of the biggest questions in the universe, including the composition of dark matter and the Universe's origin. This is a unique opportunity to gain a deeper understanding of the science behind the neutrino and its impact on our understanding of the cosmos.  
  
00:00 A revolution in astronomy  
4:58 What exactly is a neutrino?  
6:13 Where do neutrinos come from?  
8:55 Nils Bohr and the Beta decay conundrum  
12:14 Hans Bethe and the invisible particle solution  
15:24 How NOT to find a neutrino  
21:27 On the hunt for solar neutrinos  
25:48 Three flavours of neutrinos  
28:16 Neutrino oscillation and how it works  
31:18 Probing the inside of the earth  
34:47 Using neutrinos for astronomy  
38:47 Matter over Antimatter  
46:09 Could aliens communicate using neutrinos?  
52:50 Looking at the birth of the universe  
  
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James Riordon is a science journalist who has written for Science News, Scientific American, New Scientist, Popular Science, Washington Post, Science, Ad Astra, Physics Today, and Analytical Chemistry. He is a past President of the DC Science Writers Association and Cofounder of the Southwest Science Writers Association.  
  
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**Statistics:** 56295 views, 1372 likes, 55 minutes

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Product links on this page may be affiliate links which means it won't cost you any extra but we may earn a small commission if you decide to purchase through the link.

**Statistics:** 56049 views, 1372 likes, 55 minutes

### Top videos Comments and Sentiment

* **neutral :**The lecture is composed of a lot of misinformation, unscientific terminology and content, spoken in a sensational and confident way to make the viewer believe the lecturer actually knows what he is talking about... This should never have been at the RI.
* **admiration :**Great analysis of neutrino ❤great lecturer
* **curiosity :**Ask it what's heavier, a pound of rocks or a pound of feathers?
* **approval :**This is a terribly constructed question. So much so that it almost guarantees failure in the response. Do better
* **remorse :**I feel sorry for James Riordan who was led astray by the consensus scientists; neurtinos are heat

## Worst videos

### Worst videos info

#### Can computers listen to drummers?

**Description:** Andrew Robertson is designing software that can monitor and follow the tempo of a live drummer.  
  
Rather than the performer following exactly a pre-defined "click track" the system allows computer controlled samples and effects to be timed according to the drummers own pace. Via a process called "time-stretching" the software is then able to speed up or slow down sound samples without altering their actual pitch.  
  
In his second Components film, Andrew puts his software to the test at Queen Mary University London with a professional drummer and explains how the technology might be used creatively in musical performance.  
  
This film is part of a project funded by the Royal Academy of Engineering to develop the on camera communication skills of engineers across the UK.  
  
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**Statistics:** 1998 views, 38 likes, 5 minutes

#### Q&A - From Cowardice to Shellshock: Medicine, Psychiatry and the Great War

**Description:** Are stretcher-bearers to most underappreciated heroes of the Great War? Can you diagnose a distinction between mental illness and cowardice? How has treatment of post-traumatic stress disorder changed over time?   
Subscribe for regular science videos: http://bit.ly/RiSubscRibe  
  
Watch the main event here: https://www.youtube.com/watch?v=sQX2WWZesLc  
  
This Q&A follows the event, 'From cowardice to shellshock: medicine, psychiatry and the Great War.'   
  
World War I drove great advances in science and technology, but less well-known is its impact on medicine.   
  
Emily Mayhew told the story of the stretcher bearers of WW1 who were at the heart of this medical revolution. Louis and Marc-Antoine Crocq then explored the evolution of the diagnostics and treatment of ’war neurosis’.   
  
This event was organised in association with the French Embassy.  
  
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**Statistics:** 3792 views, 33 likes, 34 minutes

#### Preventing cycling injury with physics

**Description:** Cycling is undoubtedly good for you but, as Donal McNally is all too aware, accidents happen. A Professor of Bioengineering at Nottingham University his work involves simulating accidents to analyse the forces and stress acting on the human skeleton.  
  
Cycling home in late 2010 he was involved in the "ultimate ironic accident". Hit from behind by a car he suffered a broken neck, a lower back fracture and three cracked ribs, but was saved by his cycling helmet.  
  
As Donal himself says, this outcome was determined not by chance, but by the laws of physics.  
  
In this short film, he explores the cycle helmet technology used to prevent injuries and fatalities on the road -- including his own -- and demonstrates how the extra padding around your head dissipate the energy of the impact.  
  
In the absence of volunteers for randomised controlled trials involving real accidents, Donal performs tests using computer simulations re-running the same accident and conditions with or without different types of helmet. Without a memory of his own near-fatal accident he can recreate the collision with a computer simulation to finally discover why he survived.   
  
This film is part of a project funded by the Royal Academy of Engineering to develop the on camera communication skills of engineers across the UK.  
  
The Ri is on Twitter: http://twitter.com/ri\_science  
and Facebook: http://www.facebook.com/royalinstitution  
and Tumblr: http://ri-science.tumblr.com/  
Our editorial policy: http://www.rigb.org/home/editorial-policy  
Subscribe for the latest science videos: http://bit.ly/RiNewsletter

**Statistics:** 5293 views, 61 likes, 5 minutes

### Worst videos Comments and Sentiment

* **neutral :**I am reminded, contemporaneously of the action of the exceptional Kate Nesbit, MC, in Afghanistan. Google the lass...
* **curiosity :**has anything come of this ? i WANT this app !
* **disgust :**It is such a shame this videos have so few views... It is the Royal Institution. Almost worth learning to play drum just to be able to have a go with that. :L
* **disappointment :**I fell once. Laptop absorbed the impact
* **disapproval :**But thats not really ethical...

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