How to use the library





Senior academic librarian Anna Kathinka Dalland Evans
Introduction week for master students, Dep of Physics, August 2022

UiO : University of Oslo Library
Library of Medicine and Science

Your subject specialist (me)

- ph.d. (2009) - Institute of Theoretical Astrophysics (ITA)
- ... and communication!

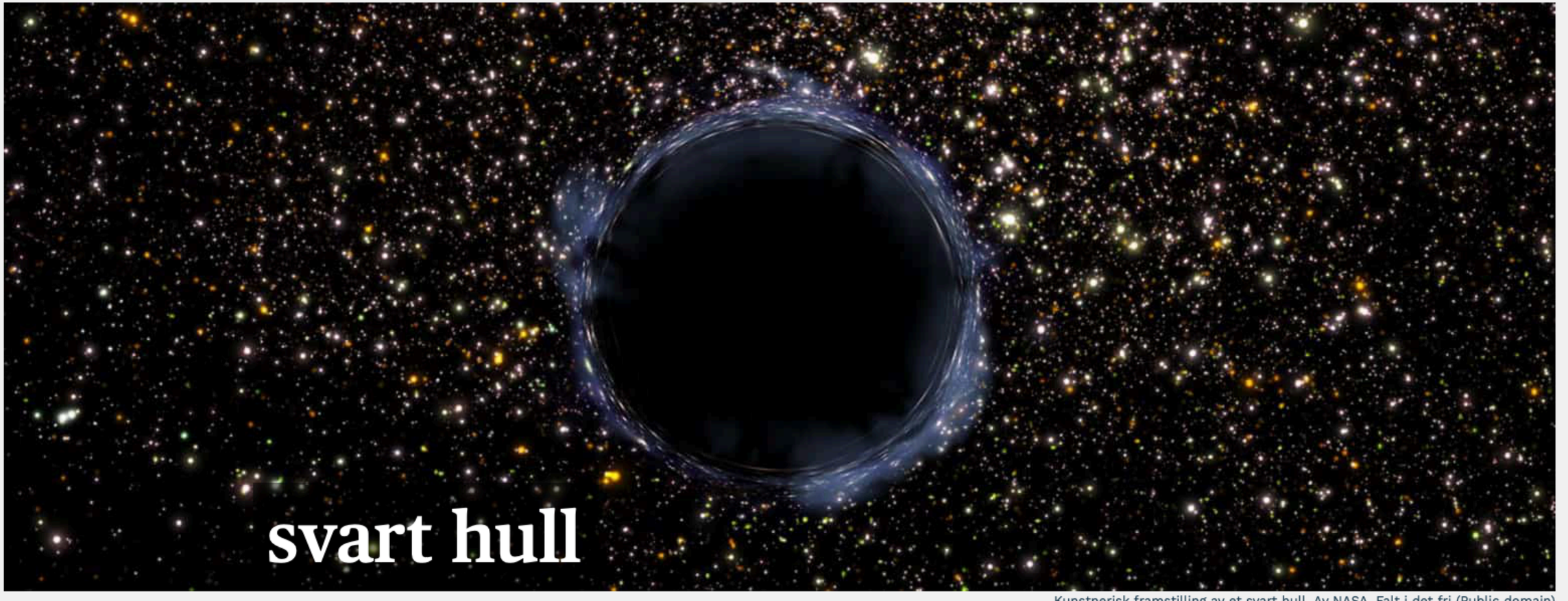
- MET Norway
  - Communication (Yr++)
  - 100+ researchers
- The Universe @ snl.no



snl.no/svart_hull

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Today's agenda

Why you should use us at the Library

- Who we are at the library
- Searching for a (master) topic
- How we can help you write a great thesis
- Help me make the best seminar for YOU



UiO : University of Oslo Library
Library of Medicine and Science



A glance at science



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The Science Library

Open & staffed: 8 - 20 weekdays

10 - 18 weekends

5 - 24 all week with card & code

- Free coffee and tea every morning
- If you need help - ask us at the library desk
  or our digital desk: ub.uio.no
- Study areas and group rooms
- Events in the foyer

UNIVERSITY
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Physics at the Library

Charles M. Marcus

Bohr’s legacy: What is quantum today?



Tuesday May 24, 12.15–13.00
Science Library, Vilhelm Bjerknes’ hus



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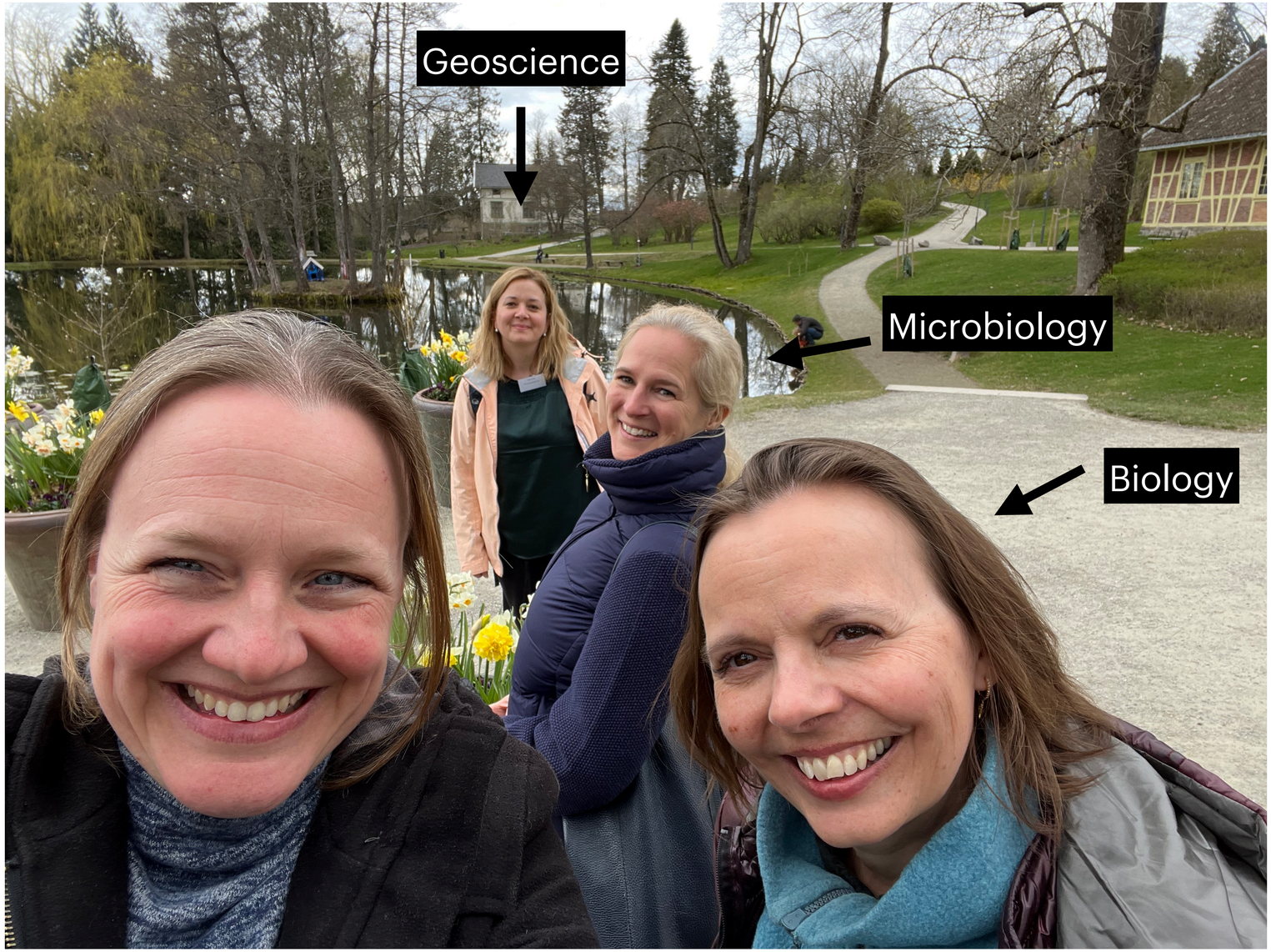


Anna Kathinka Dalland Evans

Subject specialist physics
The Science Library

Who we are at the library

Your pool of helpers!



Silent knowledge

How to do research?



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Your Master Thesis

What we can do to help

- Searching for literature (in a new field)
- Citing and references
  - Reference management tools (Endnote/Zotero), help you keep track!
  - Latex/Bibtex help (latex-guru@ub.uio.no)
  - Copyright
- Figures, maps and datasets
- Tips on writing/writing sessions (shut up and write)
- Outreach and communication

Searching

ub.uio.no

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University of Oslo Library

Menu



Find books, articles, journals etc.

Books, journals, articles etc. - print & electronic

Oria help

Go to Oria

Search options in Oria

You can choose between different search options in the search box menu.

University of Oslo Library
Includes print and electronic resources available at UiO.

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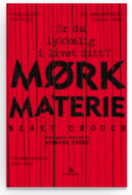
Proceedings of the First IFT Workshop: Dark Matter, Institute for Fundamental Theory, University of Florida, February 14-16, 1992

IFT Workshop; R. D Field; J Fry; P Ramond; P Sikivie; Institute for Fundamental Theory

1994

Available at UiO : Universitetsbiblioteket

2



BOOK

Mørk materie

Blake Crouch (1978-) (forfatter); Kurt Hanssen (1959-) (oversetter)

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Title contains "dark matter" AND particle

SEARCH

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1



ARTICLE

Cosmological implications of photon-flux upper limits at ultra-high energies in scenarios of Planckian-interacting massive particles for dark matter

Albury, J. M ; Almela, A ; Aramo, C ; Ferreira, P. R. Araújo ; Blazek, J ; Boháčová, M ; Caballero-Mora, K. S ; Caracas, I ; Cataldi, G ; Cerda, M ; Chinellato, J. A ; Chytka, L ; Colalillo, R ; Consolati, G ; de Jesús, J ; Franco, D. de Oliveira ; del Río, M ; Deligny, O ; Deval, L ; di Matteo, A ; Dobre, M ; D'Olivo, J. C ; Dova, M. T ; Ebr, J ; Farmer, J ; Fauth, A. C ; Fazzini, N ; Feldbusch, F ; Fick, B ; Figueira, J. M ; Fodran, T ; Fujii, T ; Gherghel-Lascu, A ; Gobbi, F ; Berisso, M. Gómez ; Góra, D ; Guarino, F ; Hahn, S ; Hojvat, C ; Janecek, P ; Kampert, K. H ; Khakurdikar, A ; Covilakam, V. V. Kizakke ;…

2022

OPEN ACCESS

Available online

2



ARTICLE

Sensitivity of direct detection experiments to neutrino dark radiation from dark matter decay and a modified neutrino-floor

Nikolic, Marco ; Kulkarni, Suchita ; Pradler, Josef

The European physical journal. C, Particles and fields, 2022, Vol.82 (7), p.1-17

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arXiv > astro-ph > arXiv:2208.02353

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[Submitted on 3 Aug 2022]

Cosmological implications of photon-flux upper limits at ultra-high energies in scenarios of Planckian-interacting massive particles for dark matter

The Pierre Auger Collaboration: P. Abreu, M. Aglietta, J.M. Albury, I. Allekotte, K. Almeida Cheminant, A. Almela, J. Alvarez-Muñiz, R. Alves Batista, J. Ammerman Yebra, G.A. Anastasi, L. Anchordoqui, B. Andrada, S. Andringa, C. Aramo, P.R. Araújo Ferreira, E. Arnone, J. C. Arteaga Velázquez, H. Asorey, P. Assis, G. Avila, E. Avocone, A.M. Badescu, A. Bakalova, A. Balaceanu, F. Barbato, J.A. Bellido, C. Berat, M.E. Bertaina, G. Bhatta, P.L. Biermann, V. Binet, K. Bismark, T. Bister, J. Biteau, J. Blazek, C. Bleve, J. Blümer, M. Boháčová, D. Boncioli, C. Bonifazi, L. Bonneau Arbeletche, N. Borodai, A.M. Botti, J. Brack, T. Bretz, P.G. Brichetto Orchera, F.L. Briechle, P. Buchholz, A. Bueno, S. Buitink, M. Buscemi, M. Büsken, K.S. Caballero-Mora, L. Caccianiga, F. Canfora, I. Caracas, R. Caruso, A. Castellina, F. Catalani, G. Cataldi, L. Cazon, M. Cerda, J.A. Chinellato, J. Chudoba, L. Chytka, R.W. Clay, A.C. Cobos Cerutti, R. Colalillo, A. Coleman, M.R. Coluccia, R. Conceição, A. Condorelli, G. Consolati, F. Contreras, F. Convenga, D. Correia dos Santos, C.E. Covault, S. Dasso, K. Daumiller, B.R. Dawson, J.A. Day, R.M. de Almeida, J. de Jesús, S.J. de Jong, J.R.T. de Mello Neto, I. De Mitri, J. de Oliveira, D. de Oliveira Franco, F. de Palma, V. de Souza, E. De Vito, A. Del Popolo, M. del Río, O. Deligny, L. Deval, A. di Matteo, M. Dobre, C. Dobrigkeit, J.C. D'Olivo et al. (277 additional authors not shown)

We present a thorough search for signatures that would be suggestive of super-heavy X particles decaying in the Galactic halo, in the data of the Pierre Auger Observatory. From the lack of signal, we derive upper limits for different energy thresholds above $\gtrsim 10^8$\,GeV on the expected secondary by-product fluxes from X-particle decay. Assuming that the energy density of these super-heavy particles matches that of dark matter observed today, we translate the upper bounds on the particle fluxes into tight constraints on the couplings governing the decay process as a function of the particle mass. We show that instanton-induced decay processes allow us to derive a bound on the reduced coupling constant of gauge interactions in the dark sector: $\alpha_X \lesssim 0.09$, for $10^9 \lesssim M_X/\mathrm{GeV} < 10^{19}$. This upper limit on α_X is complementary to the non-observation of tensor modes in the cosmic microwave background in the context of Planckian-interacting massive particles for dark matter produced during the reheating epoch. Viable regions for this scenario to explain dark matter are delineated in several planes of the multidimensional parameter space that involves, in addition to M_X and α_X, the Hubble rate at the end of inflation, the reheating efficiency, and the non-minimal coupling of the Higgs with curvature.

Comments: 15 pages, 8 figures, Accompanying paper of arXiv:2203.08854
Subjects: **High Energy Astrophysical Phenomena (astro-ph.HE)**; Cosmology and Nongalactic Astrophysics (astro-ph.CO); High Energy Physics - Phenomenology (hep-ph)
Cite as: arXiv:2208.02353 **[astro-ph.HE]**
(or arXiv:2208.02353v1 **[astro-ph.HE]** for this version)
https://doi.org/10.48550/arXiv.2208.02353

Submission history

From: Olivier Deligny [view email]
[v1] Wed, 3 Aug 2022 21:29:25 UTC (446 KB)

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Antimatter: What It Is and Why It's Important in Physics and Everyday Life
Gato-Rivera, Beatriz
2021
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Yet Another Introduction to Dark Matter : The Particle Physics Approach
Martin. Bauer (author./forfatter/);Tilman. Plehn (author./forfatter/)
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Available online

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Yet Another Introduction to Dark Matter : The Particle Physics Approach

Martin. Bauer (author./forfatter/);Tilman. Plehn (author./forfatter/)

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Anna Kathinka Dalland Evans

Subject specialist physics
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Selected resources

Web of science (Thomson Reuters)
Multidisiplinary reference- and citation database. Large overlap with Scopus in both content and functionality, but Web of Science still has better coverage back in time.

IEEE Xplore
IEEE Explore contains fulltext articles, e-books and conference proceedings from IEEE, IET, IBM and VDE Verlag, in addition to IEEE Standards Dictionary. Covers applied physics and computing with a special focus on electrical engineering.

Scopus (Elsevier)
Multidisiplinary reference- and citation database started in 2004. Large overlap with Web of Science in both content and functionality, but Scopus contains a greater number of entries.

arXiv.org (1991-)
Arxiv is an open access electronic archive for articles and preprints within physics, mathematics, computer technology etc. Particularly strong in theoretical physics.

Google scholar
Search engine for scientific information. See Fulltext@UBO for accessing articles or to order a copy.

→ Go to more databases in physics

Relevant databases in physics, electronics and material science

In addition to these databases, there are a number of databases that could be relevant for physics, electronics and material science here.

Alloy Phase Diagrams Center (ASM)
The ASM Alloy Phase Diagrams Center allows subscribers to explore, search and view more than 28,000 binary and ternary phase diagrams and associated phase data for more than 6200 systems.

arXiv (1991-)
Arxiv is an electronic archive for articles and preprints within physics, mathematics, computer technology, quantitative biology and non-linear sciences. Arxiv was started in 1991, and is owned and run by Cornell University. Particularly strong in theoretical physics.

CERN document archive
Articles, reports and multimedia content in high energy physics.

Use the UiO staff pages

People ➔ Academic staff

Henrik Andersen Sveinsson

Postdoctoral Fellow - Center for Computing in Science Education



Email h.a.sveinsson@fys.uio.no
Mobile phone +4798421006
Room FØ455
Username henriasv

Visiting address
Sem Sælands vei 24
Fysikkbygningen
0371 Oslo

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Academic interests

Molecular simulations of fractures in geologically relevant materials such as (wet) silica, ice and gas hydrates.

Basic understanding of friction.

Publications

Scientific articles and bookchapters | Books | Other

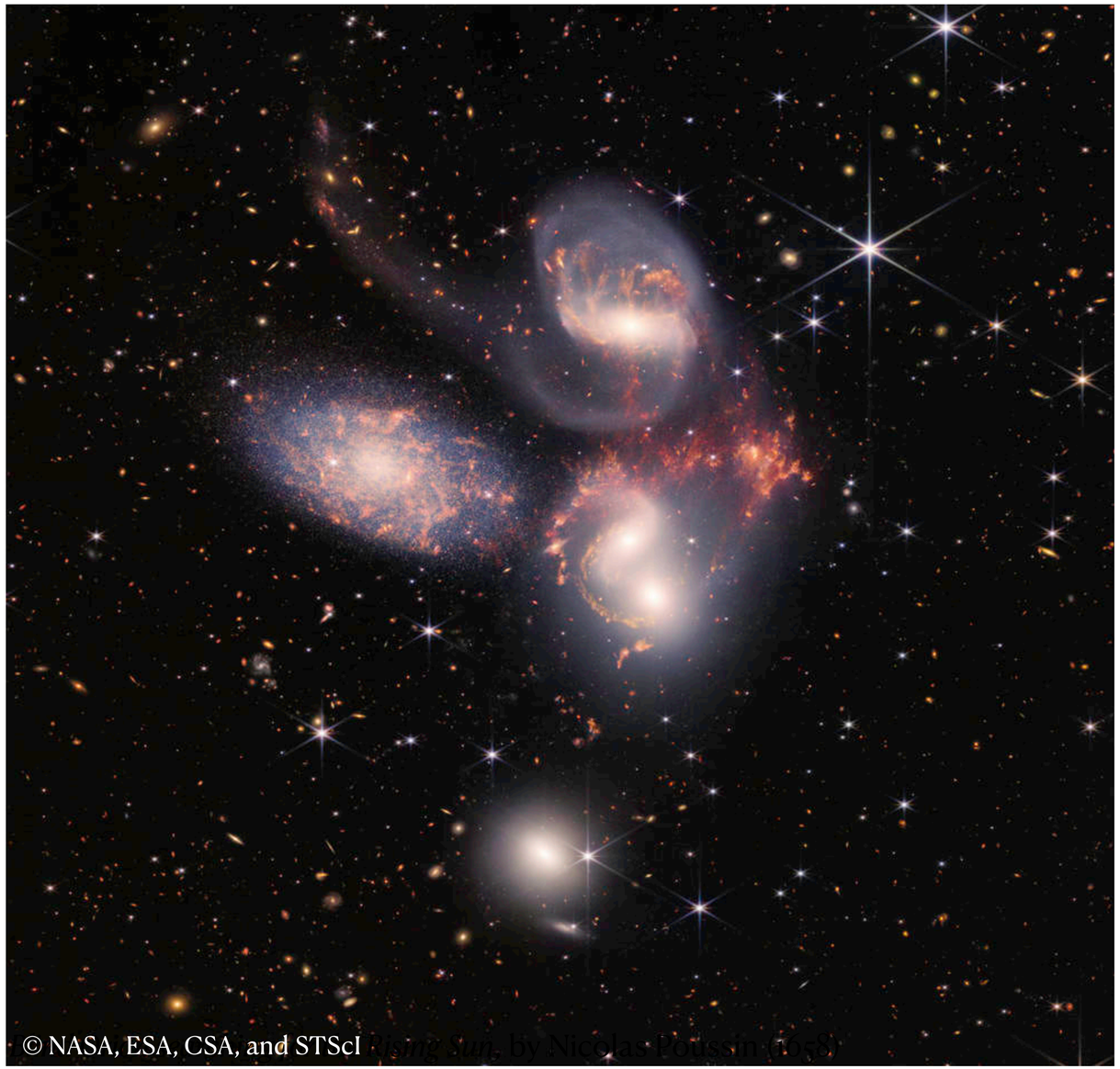
Sveinsson, Henrik Andersen; Ning, Fulong; Cao, Pinqiang; Fang, Bin & Malthe-Sørenssen, Anders (2021). Grain-Size-Governed Shear Failure Mechanism of Polycrystalline Methane Hydrates. *Journal of Physical Chemistry C.* ISSN 1932-7447. 125(18), p. 10034–10042. doi: 10.1021/acs.jpcc.1c00901. Full text in Research Archive

Guren, Marthe Grønlie; Sveinsson, Henrik Andersen; Hafreager, Anders; Jamtveit, Bjørn; Malthe-Sørenssen, Anders & Renard, Francois (2021). Molecular dynamics study of confined water in the periclase-brucite system under conditions of reaction-induced fracturing. *Geochimica et Cosmochimica Acta.* ISSN 0016-7037. 294, p. 13–27. doi: 10.1016/j.gca.2020.11.016. Full text in Research Archive

Cao, Pinqiang; Ning, Fulong; Wu, Jianyang; Cao, Boxiao; Li, Tianshu & Sveinsson, Henrik Andersen [Show all 9 contributors for this article] (2020). Mechanical Response of Nanocrystalline Ice-Contained Methane Hydrates: Key Role of Water Ice. *ACS Applied Materials & Interfaces.* ISSN 1944-8244. 12, p. 14016–14028. doi: 10.1021/acsami.0c00972.

Citing and references

Why citing matters

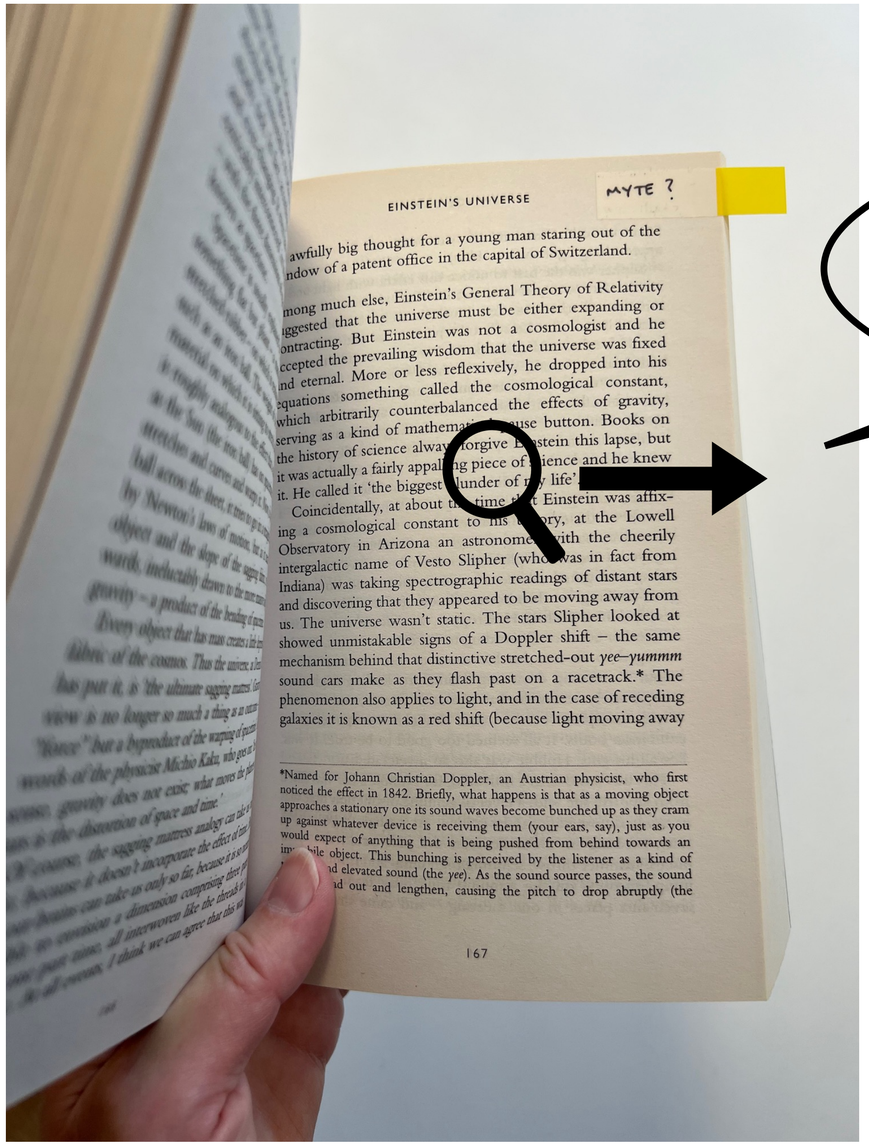


© NASA, ESA, CSA, and STScI *Rising Sun*, by Nicolas Pous in 1658

- Building science
- Isaac Newton (and others) standing on the shoulders of giants
- Citations that get stuck...

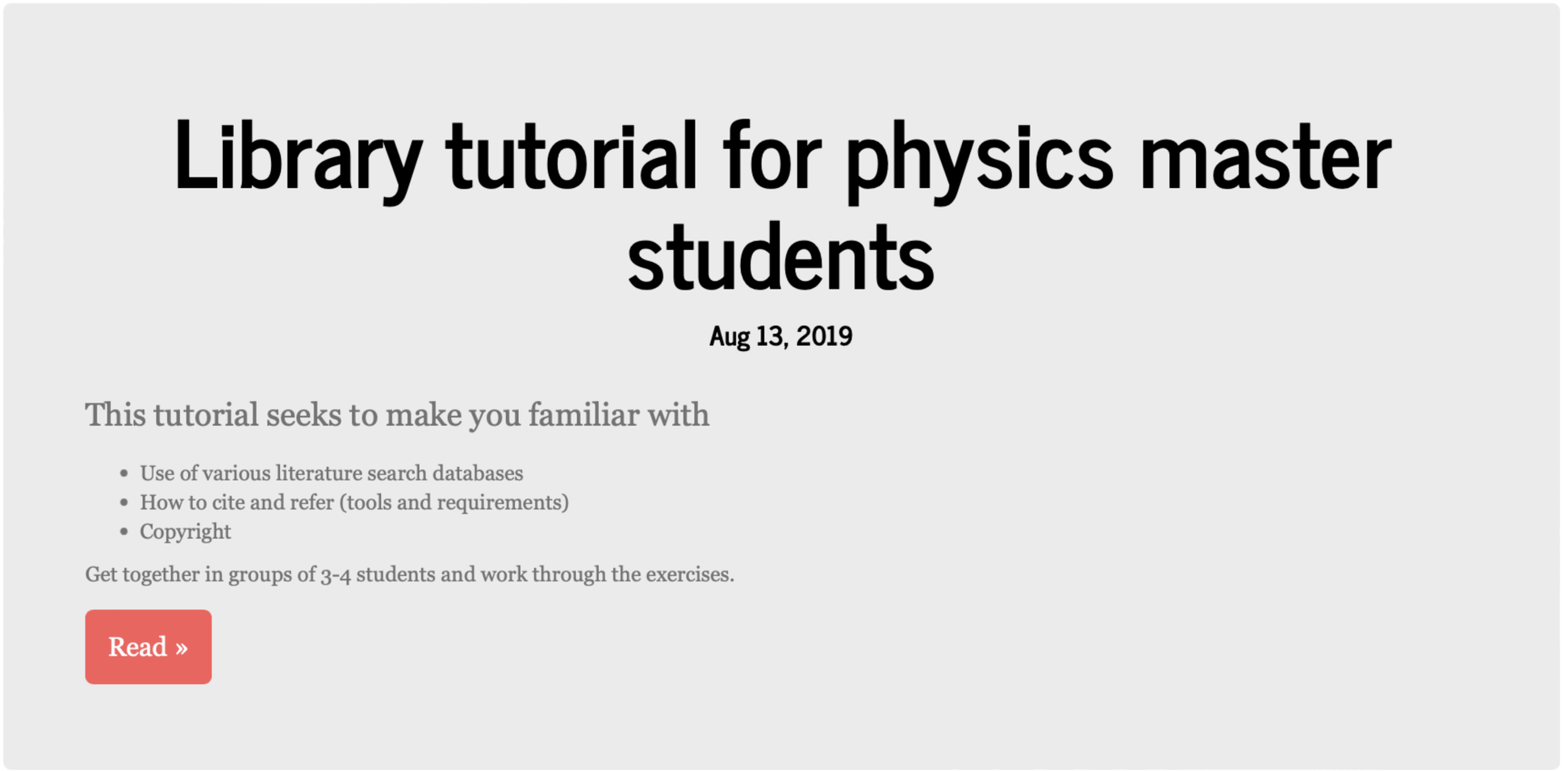
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Why citing matters



He called it “the biggest blunder of my life”.

uio-library.github.io/physics-master-library-tutorial/main



Made by Henrik Sveinsson, post doc at CCSE/UiO

Using citations correctly ensures that:

(From Henrik Sveinsson's Library tutorial)

- the reader knows where to read more about something
- the reader can check your facts and verify your results
- you credit the right person for a discovery, claim, line of reasoning etc rather than pretending you made it up yourself

Avoid plagiarism!

Read:

uio.no/studier/eksamen/fusk

uio.no/english/studies/examinations/cheating

"It is considered as cheating not to state sources or mark quotes correctly."

NB: Also applies to re-using your own previous work! (self-plagiarism)



Who to ask

If you have a specific question (e.g. citing/searching/references)

- Check out UB web pages
- Search and write: www.sokogskriv.no
- Ask your supervisor, research group, co-students++
- Ask us at the library
- BUT: Don’t wait until the last minute!



Useful links

Events and courses updated regularly

- Subject page for Physics: ub.uio.no/physics
- How to use the library (practical stuff): ub.uio.no/english/using
- ub.uio.no/english/subjects/naturalscience-technology/physics/
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See you later!

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