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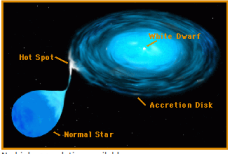
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**Figure 1.2 in Murphy-Glaysher thesis (Osaki (1996))  
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Figure 1.3 in Murphy-Glasyher thesis (Bollimpalli et al. (2018)) pp. 9-10 in this document

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**Figure 1.5 in Murphy-Glaysher thesis (Della Valle & Izzo (2020))  
pp. 16-22 in this document**

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Expected presentation date	Feb 2023
Portions	Figure 35 (Upper Panel) and Figure 36
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**Figure 1.6 in Murphy-Glays thesis (Henze et al. (2014))  
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Figure 1.7 in Murphy-Glaysher thesis (Chomiuk et al. (2021a))

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**Figure 1.8 in Murphy-Glaysher thesis (Buczynski (2018))  
pp. 26-28 in this document**

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Flag for follow up. Completed on 30/03/2023.

DB

denis buczynski <buczynski8166@btinternet.com>

•

Murphy-Glaysher, Fiona

•

Wed 29/03/2023 12:10

Hi Fiona,

Of course, yes. The images I take are all taken with the intention that they are useful and useable by researchers.

I look forward to seeing your thesis.

Please say hello to Prof Mile Bode, an old friend of mine.

Best wishes

Denis

----- Original Message -----

From: "Murphy-Glaysher, Fiona" <F.J.MurphyGlaysher@ljmu.ac.uk>

To: "denis@theastronomer.org" <denis@theastronomer.org>

Sent: Wednesday, 29 Mar, 23 At 00:40

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2018 04 29.904

Unfiltered mag measured in Astrometrica is 5.6 R Astrometry is 04 43 21.39 +47 21 25.9 UCAC4. Denis Buczynski MPC 181 Highland Scotland C14 + SBIG ST10XE +1x3s exposure my image at this link

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**Figure 1.9 in Murphy-Glaysher thesis (Leadbeater (2018))  
pp. 28-30 in this document**

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The fits header includes more information about the observation but if you need any more details please let me know. Good luck with your thesis !

Best regards

Robin Leadbeater (note spelling)

Three Hills Observatory

The Birches

Torpenhow

Wigton

CA71JF

---

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**Sent:** 22 May 2023 21:36

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**Figure 1.10 in Murphy-Glaysher thesis (Naito and Ono (2018))  
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Hiroyuki NAITO <naito@nayoro-obs.jp>

•

Murphy-Glaysher, Fiona

•

Wed 24/05/2023 13:46

Dear Fiona,

Thank you for reaching out to me.

Yes, you can use this spectrum which was taken by Naito (me) & Ono and is also published in CBET 4515.  
I will be happy if this can improve your PhD thesis.

Best regards,

Hiroyuki Naito, Nayoro Observatory

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*I would be grateful if you could advise if this will be acceptable.*

*Thank you.*

*Kind regards,*

*Fiona*

**From:** Darnley, Matt <M.J.Darnley@ljmu.ac.uk>  
**Sent:** 29 March 2023 08:41  
**To:** Murphy-Glaysher, Fiona <F.J.MurphyGlaysher@ljmu.ac.uk>  
**Subject:** RE: Requesting permission to include a figure from your article in my PhD thesis

Yes, I approve.

---

**From:** Murphy-Glaysher, Fiona <F.J.MurphyGlaysher@ljmu.ac.uk>  
**Sent:** Wednesday, 29 March 2023 00:05  
**To:** Darnley, Matt <M.J.Darnley@ljmu.ac.uk>  
**Subject:** Requesting permission to include a figure from your article in my PhD thesis

Hi Matt,

This is just the formal request for permission to include your figure in my thesis.

-----

I am contacting you to seek permission to include the following material within the electronic version of my PhD thesis:

Figure 1 from your article "On the Progenitor System of V392 Persei", Darnley M. J., Starrfield S., 2018, Research Notes of the American Astronomical Society, 2, 24

The title of my thesis is "A Comprehensive Study of Nova Persei 2018: A Gamma-Ray Bright Nova From a Known Dwarf Nova"

My name is Fiona Murphy-Glaysher.

My affiliation is Liverpool John Moores University.

My phone number and address are:

+44 (0)151 904 1847

Astrophysics Research Institute,  
Liverpool John Moores University,

IC2, Liverpool Science Park  
146 Brownlow Hill  
Liverpool  
L3 5RF  
United Kingdom

If you are not the rights holder for this material I would be grateful if you would advise me who to contact.

I have already contacted IOP Publishing regarding your article published in the RNAAS in 2018. They asked me to contact you to request permission.

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I would be grateful if you could advise if this will be acceptable.

Thank you.

Kind regards,

Fiona

**Figure 1.12 in Murphy-Glaysher thesis (Munari (2018))  
pp 36-37 in this document**

From: Ulisse Munari <ulisse.munari@inaf.it>

Sent: 23 May 2023 10:26

To: Murphy-Glaysher, Fiona <F.J.MurphyGlaysher@ljmu.ac.uk>

Cc: Ulisse Munari <ulisse.munari@inaf.it>

Subject: Re: Request for permission to include spectra within the electronic version of my PhD thesis

Hi Fiona, congratulation to have almost completed your PhD thesis :-)

I'm the only rights holder of the spectra, and you have my permission to include them in your thesis provided

their source is properly identified.

All the best

Ulisse

On Mon, 22 May 2023, Murphy-Glaysher, Fiona wrote:

> Dear Ulisse,

>

> I hope you are well. I am contacting you to seek permission to include the following material within the electronic version of my PhD thesis:

>

> Low resolution spectra of V392 Per taken on 2018-08/08, 2018-09-09 and  
> 2018-12-20 (copy attached)

>

>

> If you are not the rights holder for this material I would be grateful if you would advise me who to contact.

>

>

> The thesis will be made available within Liverpool John Moores University's online E-Theses Collection (<https://ddec1-0-en-ctp.trendmicro.com:443/wis/clicktime/v1/query?url=http%3a%2f%2fresearchonline.ljmu.ac.uk%2fview%2ftheses%2f&umid=3c1f485b-6215-4ba2-a51e-74f99c0a84a1&auth=6b639a990a359ff1d6cc8761081d57748ce3c81e-e918c9d971d43f18033e01a5eaef0d5caacac1fc>).

>

>

>

> The Collection is non-commercial and openly available to all.

>

>

> I would be grateful if you could advise if this will be acceptable.

>

>

> Thank you.

>

>

> Kind regards,

>

>

> Fiona

>

**Figure 2.1 in Murphy-Glaysher thesis (LT)  
pp. 38-39 in this document**

**From:** Marchant, Jonathan <J.Marchant@ljmu.ac.uk>  
**Sent:** 21 April 2023 17:26  
**To:** Murphy-Glaysher, Fiona <F.J.MurphyGlaysher@ljmu.ac.uk>  
**Subject:** Re: Permission to include photo of the Liverpool Telescope in PhD thesis

Hi Fiona,

No problem, permission granted :)

Cheers,

Jon

---

Dr Jon Marchant                      Tel: +44 151 231 2903  
Astrophysics Research Institute      +44 7968 422502  
Liverpool John Moores University, UK    [www.astro.ljmu.ac.uk](http://www.astro.ljmu.ac.uk)

---

**From:** Murphy-Glaysher, Fiona <F.J.MurphyGlaysher@ljmu.ac.uk>  
**Sent:** 21 April 2023 17:18  
**To:** Marchant, Jonathan  
**Subject:** Permission to include photo of the Liverpool Telescope in PhD thesis

Hi Jon,

I hope you are well.

I am contacting you to seek permission to include the following material within the electronic version of my PhD thesis:

Photo of the Liverpool Telescope (see below).  
The photo is hosted in the LT gallery at this location  
<https://www.flickr.com/photos/128440352@N06/15825889025/in/album-72157648728872007/>  
[cid:27ca45bb-689f-42de-99ab-679fd6792136]

The title of my thesis is "A Comprehensive Study of Nova Persei 2018: A Gamma-Ray Bright Nova From a Known Dwarf Nova"

My name is Fiona Murphy-Glaysher.

My affiliation is Liverpool John Moores University.

My phone number and address are:

+44 (0)151 904 1847

Astrophysics Research Institute,  
Liverpool John Moores University,  
IC2, Liverpool Science Park  
146 Brownlow Hill  
Liverpool  
L3 5RF  
United Kingdom

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I would be grateful if you could advise if this will be acceptable.

Thank you.

Kind regards,  
Fiona

**Figure 2.1 in Murphy-Glaysher thesis (LCOGT)  
pp. 40-42 in this document**

Image of LCO telescope taken from <https://lco.global/news/lcogt-sees-first-light-at-mcdonald-observatory/>

Image credit: Las Cumbres Observatory

Image of LCOGT 1-m telescope

**From:** Sandy Seale <sseale@lco.global>

**Sent:** 04 April 2023 18:24

**To:** Murphy-Glaysher, Fiona <F.J.MurphyGlaysher@ljmu.ac.uk>

**Subject:** Re: Permission to include photo of LCOGT 1-metre telescope within PhD thesis

Hello Fiona,

Yes, you may use this image with proper credit:

"Image Credit: Las Cumbres Observatory"

Best wishes with your Ph.D.,

Sandy Seale

On Tue, Apr 4, 2023 at 10:17 AM Murphy-Glaysher, Fiona <[F.J.MurphyGlaysher@ljmu.ac.uk](mailto:F.J.MurphyGlaysher@ljmu.ac.uk)> wrote:

Dear Permissions team,

*I am contacting you to seek permission to include the following material within the electronic version of my PhD thesis:*

Photo of 1-meter telescope in the enclosure on the following webpage:

<https://lco.global/news/lcogt-sees-first-light-at-mcdonald-observatory/>

## LCOGT Sees First Light at McDonald Observatory

The first Las Cumbres Observatory Global Telescope (LCOGT) 1-meter telescope - of a planned 16 - saw first light Saturday night, April 1st, at McDonald Observatory in Texas. The milestone comes after...

lco.global

The title of my thesis is "A Comprehensive Study of Nova Persei 2018: A Gamma-Ray Bright Nova From a Known Dwarf Nova"

My name is Fiona Murphy-Glaysher.

My affiliation is Liverpool John Moores University.



My phone number and address are:  
+44 (0)151 904 1847

Astrophysics Research Institute,  
Liverpool John Moores University,  
IC2, Liverpool Science Park  
146 Brownlow Hill  
Liverpool  
L3 5RF  
United Kingdom

*If you are not the rights holder for this material I would be grateful if you would advise me who to contact.*

*The thesis will be made available within Liverpool John Moores University's online E-Theses Collection (<http://researchonline.ljmu.ac.uk/view/theses/>)*

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).

*The Collection is non-commercial and openly available to all.*

*I would be grateful if you could advise if this will be acceptable.*

*Thank you.*

*Kind regards,  
Fiona Murphy-Glaysher*

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<https://www.ljmu.ac.uk/legal/privacy-and-cookies>

--

Sandy Seale, Ph.D.  
Director of Development  
Las Cumbres Observatory

[sseale@lco.global](mailto:sseale@lco.global)

Office: [+1 805 880 1600](tel:+18058801600)

Mobile: [+1 805 403 3113](tel:+18054033113)

Website: <https://lco.global>

Las Cumbres  
Observatory 

**Figure 2.1 in Murphy-Glaysher thesis (LBT/NASA)  
& Figure 2.1 in Murphy-Glaysher thesis (Fermi/NASA)  
& Figure 2.1 in Murphy-Glaysher thesis (Swift/NASA)  
pp. 42-47 in this document**

Image of LBT taken from <https://www.jpl.nasa.gov/news/telescope-to-see-dust-where-other-earth-may-lie>

Image Credit: NASA/JPL-Caltech

Image of Fermi telescope taken from <https://www.nasa.gov/audience/forstudents/5-8/features/nasa-knows/what-is-the-fermi-telescope-58.html>

Image Credits: NASA E/PO, Sonoma State University, Aurore Simonnet

Image of Swift telescope taken from  
[https://commons.wikimedia.org/wiki/File:Swift\\_Observatory\\_spacecraft\\_model.png](https://commons.wikimedia.org/wiki/File:Swift_Observatory_spacecraft_model.png)

Image credits: NASA E/PO, Sonoma State University/Aurore Simonnet

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### **Documentary and Fictional Film Project Guidelines**

NASA participates in scores of documentaries annually and a number of feature films as well. Participation ranges from providing imagery and footage to permitting on-site filming. Below describes the process of working with NASA on documentary and film projects.

#### **Documentaries**

NASA works only on projects which have a broadcaster/distributor and funding in place (beyond speculative phase). Once a project has a broadcaster/distributor and funding, NASA must review a treatment to determine NASA involvement and the scope of participation. Treatments can be submitted directly to [bert.ulrich@nasa.gov](mailto:bert.ulrich@nasa.gov)

NASA does not accommodate sizzle reel productions.

NASA does provide publicly available film footage and imagery regardless of involvement in a particular production. This use is subject to these [Media Usage Guidelines](#) and the [Advertising Guidelines](#).

NASA does not fund external documentary projects.

For interviews for documentaries, a release form is not required.

## **Feature film and fictional film projects**

NASA participates only in projects which have funding and distribution in place.

A formal agreement is often required when there is a need to lay out what is expected of both parties in terms of shoots, clearances, protection of NASA's appearance in a fictional storyline, etc. An agreement may also be needed when the parties plan for an on-going collaboration for education or outreach activities beyond routine appearances or interviews.

After providing a signed NASA Acknowledgment of Non-Disclosure, if necessary, NASA then reviews a script to assess participation in a project. In cases where NASA participation is approved, other items may need to be addressed, including: review and clearance for use of the NASA Insignia and other identifiers, footage, still imagery and other NASA assets; details of any filming on NASA property; post assistance; and when appropriate, outreach leading to release of the film.

NASA does provide publicly available film footage and imagery regardless of any direct NASA involvement in a particular production. This use is subject to these [Media Usage Guidelines](#) and [Advertising Guidelines](#).

## **Commercial and promotional shoots**

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For more information, please contact Bert Ulrich at [bert.ulrich@nasa.gov](mailto:bert.ulrich@nasa.gov)

## **Communications Partnerships**

In addition to TV/film collaborations, NASA's Office of Communications sometimes enters into partnerships with organizations to support external projects that help tell NASA's story or inspire interest in space and STEM careers. NASA generally supports projects that have the ability to reach large numbers of the public or non-traditional audiences, expanding our efforts beyond of the aerospace community.

- Learn more about [NASA Partnerships](#)
- Find [Partnership Events and Opportunities](#)
- For more information, please contact Maureen O'Brien at [Maureen.O'Brien-1@nasa.gov](mailto:Maureen.O'Brien-1@nasa.gov)

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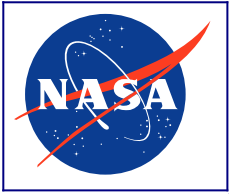
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National Aeronautics and Space Administration Page Last Updated: Jan 4, 2022 Page Editor: Gary Daines NASA Official: Brian Dunbar

**Figure 2.1 in Murphy-Glaysher thesis (Hiltner/ MDM)  
p 48 in this document**

Image of Hiltner Observatory taken from  
Image credit: NOIRLab/AURA/NSF

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The screenshot shows the NOIRLab website header with the NSF logo and navigation links for PUBLIC, SCIENTISTS, and INTRANET. A search bar is also present. The main navigation menu includes ABOUT, PROGRAMS, PROJECTS, IMAGES, VIDEOS, NEWS, EDUCATION, PRODUCTS, DIVERSITY, and EVENTS. The 'IMAGES' menu item is highlighted, and a sub-menu item 'Usage of NOIRLab images and videos' is selected.

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## V392 Persei: A $\gamma$ -ray bright nova eruption from a known dwarf nova

F. J. Murphy-Glasyher<sup>1</sup>,<sup>1\*</sup> M. J. Darnley<sup>1</sup>,<sup>1\*</sup> É. J. Harvey<sup>1</sup>,<sup>1</sup> A. M. Newsam,<sup>1</sup> K. L. Page<sup>2</sup>,<sup>2</sup> S. Starfield,<sup>3</sup> R. M. Wagner,<sup>4</sup> C. E. Woodward,<sup>5</sup> D. M. Terndrup,<sup>4</sup> S. Kafka,<sup>6,7</sup> T. Arranz Heras,<sup>6</sup> P. Berardi,<sup>8</sup> E. Bertrand,<sup>8</sup> R. Biernikowicz,<sup>6</sup> C. Boussin,<sup>8,9</sup> D. Boyd,<sup>6</sup> Y. Buchet,<sup>8</sup> M. Bundas,<sup>6</sup> D. Coulter,<sup>6</sup> D. Dejean,<sup>8</sup> A. Diepvens,<sup>6</sup> S. Dvorak,<sup>6</sup> J. Edlin,<sup>8</sup> T. Eenmae,<sup>6,10</sup> H. Eggenstein,<sup>6</sup> R. Fournier,<sup>6</sup> O. Garde,<sup>8,11</sup> J. Gout,<sup>6</sup> D. Janzen,<sup>6,12</sup> P. Jordanov,<sup>6</sup> H. Kiiskinen,<sup>6</sup> D. Lane<sup>6</sup>,<sup>6</sup> R. Larochele,<sup>6,12</sup> R. Leadbeater,<sup>8</sup> D. Mankel,<sup>6</sup> G. Martineau,<sup>8</sup> I. Miller,<sup>6</sup> R. Modic,<sup>6</sup> J. Montier,<sup>8</sup> M. Morales Aimar,<sup>6</sup> E. Muylaert,<sup>6</sup> R. Naves Nogueas,<sup>6</sup> D. O’Keeffe,<sup>6</sup> A. Oksanen,<sup>6</sup> M. Pyatnytsky,<sup>6</sup> R. Rast,<sup>6,12</sup> B. Rodgers,<sup>6,12</sup> D. Rodriguez Perez,<sup>6</sup> F. Schorr,<sup>6</sup> E. Schwendeman,<sup>6</sup> S. Shadick,<sup>6,12</sup> S. Sharpe,<sup>6</sup> F. Soldán Alfaro,<sup>6,13</sup> T. Sove,<sup>6,12</sup> G. Stone,<sup>6</sup> T. Tordai,<sup>6</sup> R. Venne,<sup>6</sup> W. Vollmann,<sup>6</sup> M. Vrstak<sup>6</sup> and K. Wenzel<sup>6</sup>

<sup>1</sup>Astrophysics Research Institute, Liverpool John Moores University, IC2, Liverpool Science Park, Brownlow Hill, Liverpool L3 5RF, UK

<sup>2</sup>School of Physics and Astronomy, University of Leicester, Leicester LE1 7RH, UK

<sup>3</sup>School of Earth and Space Exploration, Arizona State University, Box 871404, Tempe, AZ 85287-1404, USA

<sup>4</sup>Department of Astronomy, The Ohio State University, Columbus, OH 43210, USA

<sup>5</sup>Minnesota Institute for Astrophysics, School of Physics and Astronomy, 116 Church Street SE, University of Minnesota, Minneapolis, MN 55455, USA

<sup>6</sup>American Association of Variable Star Observers, 49 Bay State Rd, Cambridge, MA 02138, USA

<sup>7</sup>American Meteorological Society, 45 Beacon Street, Boston, MA 02108-3693, USA

<sup>8</sup>Astronomical Ring for Access to Spectroscopy – <http://www.astrosurf.com/aras>

<sup>9</sup>Observatoire de l’Éridan et de la Chevelure de Bérénice, 02400 Epaux-Bézu, France

<sup>10</sup>Tartu Observatory, University of Tartu, 61602 Tõravere, Estonia

<sup>11</sup>Observatoire de la Tourbière, 38690 Châbons, France

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### ABSTRACT

V392 Persei is a known dwarf nova (DN) that underwent a classical nova eruption in 2018. Here we report ground-based optical, *Swift* UV and X-ray, and *Fermi*-LAT  $\gamma$ -ray observations following the eruption for almost three years. V392 Per is one of the fastest evolving novae yet observed, with a  $t_2$  decline time of 2 d. Early spectra present evidence for multiple and interacting mass ejections, with the associated shocks driving both the  $\gamma$ -ray and early optical luminosity. V392 Per entered Sun-constraint within days of eruption. Upon exit, the nova had evolved to the nebular phase, and we saw the tail of the supersoft X-ray phase. Subsequent optical emission captured the fading ejecta alongside a persistent narrow line emission spectrum from the accretion disc. Ongoing hard X-ray emission is characteristic of a standing accretion shock in an intermediate polar. Analysis of the optical data reveals an orbital period of  $3.230 \pm 0.003$  d, but we see no evidence for a white dwarf (WD) spin period. The optical and X-ray data suggest a high mass WD, the pre-nova spectral energy distribution (SED) indicates an evolved donor, and the post-nova SED points to a high mass accretion rate. Following eruption, the system has remained in a nova-like high mass transfer state, rather than returning to the pre-nova DN low mass transfer configuration. We suggest that this high state is driven by irradiation of the donor by the nova eruption. In many ways, V392 Per shows similarity to the well-studied nova and DN GK Persei.

**Key words:** accretion, accretion discs – stars: individual (V392 Per) – novae, cataclysmic variables – X-rays: stars – transients: novae.

### 1 INTRODUCTION

Classical novae (CNe) are among the most luminous stellar transients, exceeded only by supernovae and gamma-ray bursts. CNe are binary systems in which a white dwarf (WD; typically composed of carbon and oxygen, or of oxygen and neon) accretes hydrogen-

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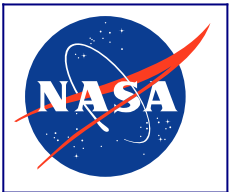
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