

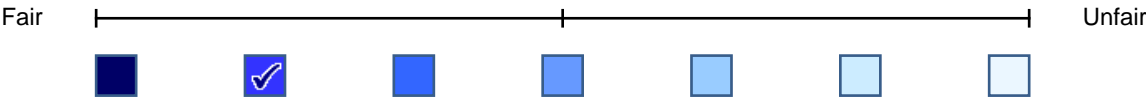
Fair Use Evaluation Documentation

Compiled using the **Fair Use Evaluator** [cc] 2008 Michael Brewer & the Office for Information Technology Policy, <http://librarycopyright.net/fairuse/>

Name:	Deheng Song
Job Title:	
Institution:	Virginia Tech
Title of Work Used:	The Fermi-LAT Galactic Center Excess: Evidence of Annihilating Dark Matter?
Copyright Holder:	Simona Murgia
Publication Status:	Published
Publisher:	Annual Review of Nuclear and Particle Science
Place of Publication:	USA
Publication Year:	2020
Description of Work:	Figure 1 of the work is partially used in my Ph.D. dissertation for educational and informational purposes.
Date of Evaluation:	January 13, 2022
Date of Intended Use:	January 13, 2022

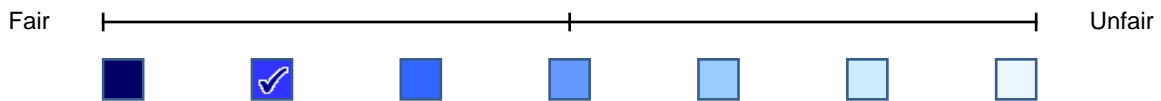
Describe the **Purpose** and Character of Your Intended Use:

[+] Use is for "criticism, comment, news reporting, teaching, (including multiple print copies for classroom use), scholarship or research"
[+] Use is not-for-profit



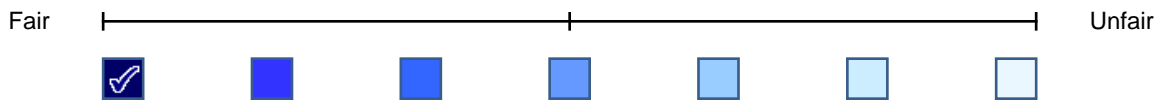
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[+] Work to be used has been previously PUBLISHED
[+] Work to be used is primarily of a factual nature (non-fiction, collection of facts, etc.)



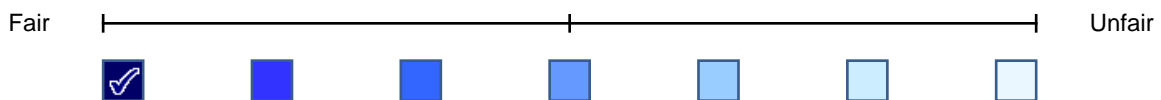
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Describe the **Effect** of Your Intended Use on the Potential Market or Value of the Copyrighted Work:

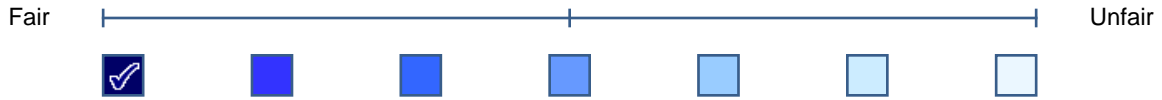
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The Average **"Fairness Level,"** Based on Your Rating of Each of the 4

Factors, Is:

[\[see tool disclaimer for important clarifying information\]:](#)



Based on the information and justification I have provided above, I, Deheng Song, am asserting this use is **FAIR** under Section 107 of the U.S. Copyright Code.

Signature: Deheng Song

Date of Signature: 01/13/2022

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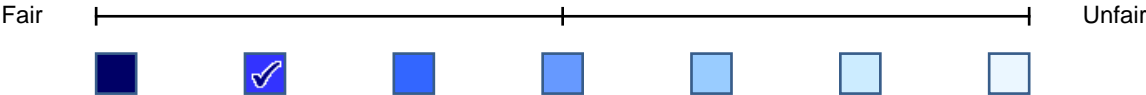
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Name:	Deheng Song
Job Title:	
Institution:	Virginia Tech
Title of Work Used:	WIMP Dark Matter Searches With the ATLAS Detector at the LHC
Copyright Holder:	Stefano Giagu
Publication Status:	Published
Publisher:	Frontiers in Physics
Place of Publication:	Switzerland
Publication Year:	2019
Description of Work:	Figure 1 of the work is used in my Ph.D. dissertation for educational and informational purposes.
Date of Evaluation:	January 13, 2022
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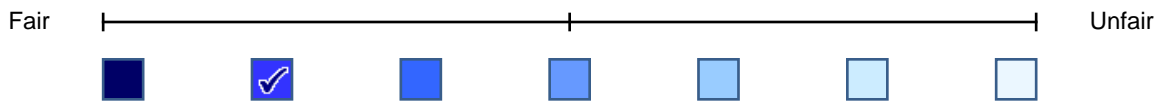
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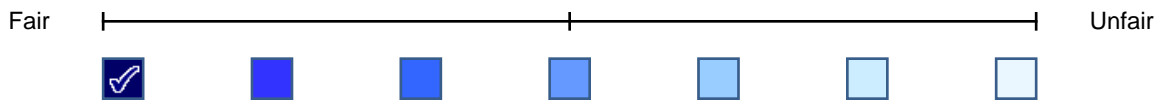
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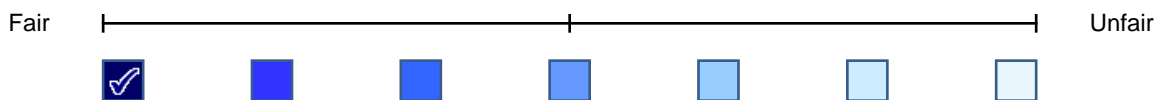
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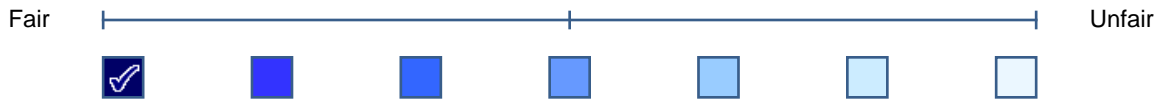
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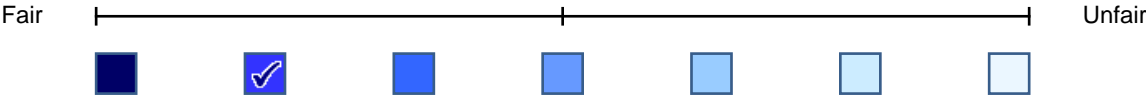
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Institution:	Virginia Tech
Title of Work Used:	The Large Area Telescope on the Fermi Gamma-Ray Space Telescope Mission
Copyright Holder:	The Fermi Large Area Telescope Collaboration
Publication Status:	Published
Publisher:	The American Astronomical Society
Place of Publication:	USA
Publication Year:	2009
Description of Work:	Figure 1 of the work is used in my Ph.D. dissertation for educational and informational purposes.
Date of Evaluation:	January 13, 2022
Date of Intended Use:	January 13, 2022

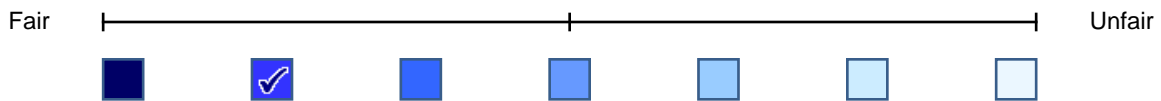
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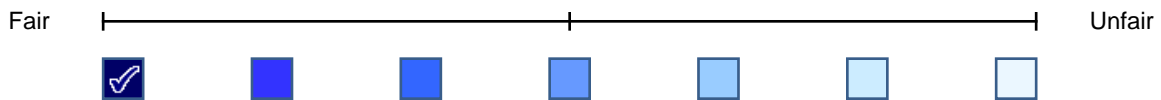
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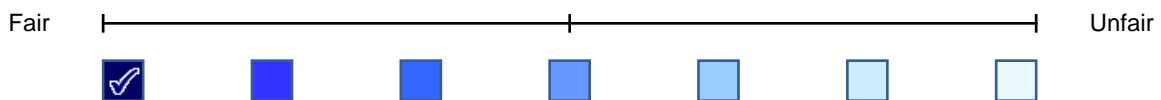
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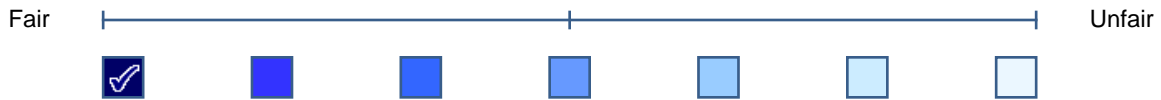
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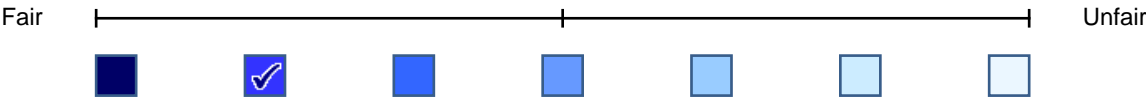
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Name:	Deheng Song
Job Title:	
Institution:	Virginia Tech
Title of Work Used:	The first deep X-ray and optical observations of the closest isolated radio pulsar
Copyright Holder:	A. Tiengo , R. Mignani , A. De Luca, P. Esposito, S. Mereghetti and A. Pellizzoni
Publication Status:	Published
Publisher:	American Institute of Physics
Place of Publication:	USA
Publication Year:	2011
Description of Work:	Figure 1 of the work is partially used in my Ph.D. dissertation for educational and informational purposes.
Date of Evaluation:	January 13, 2022
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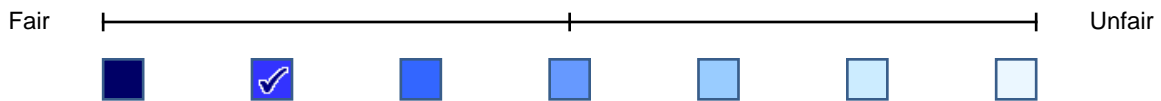
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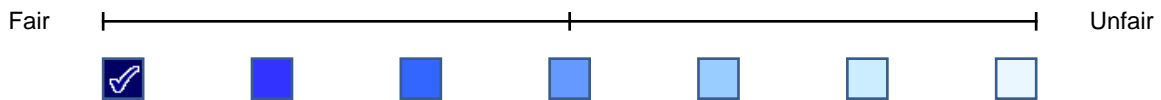
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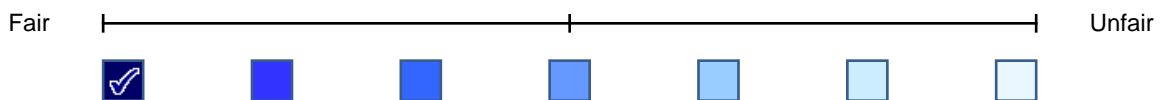
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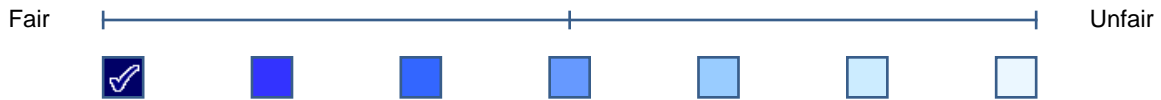
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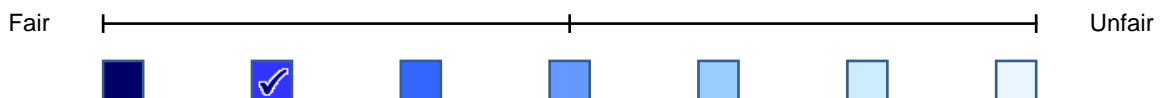
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Name:	Deheng Song
Job Title:	
Institution:	Virginia Tech
Title of Work Used:	TASI 2008 Lectures on Dark Matter
Copyright Holder:	Dan Hooper
Publication Status:	Published
Publisher:	
Place of Publication:	
Publication Year:	2009
Description of Work:	The work is published online (accessed from https://arxiv.org/abs/0901.4090). Figure 1 of the work is used in my Ph.D. dissertation for educational and informational purposes.
Date of Evaluation:	January 13, 2022
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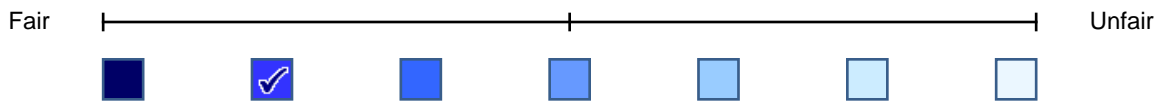
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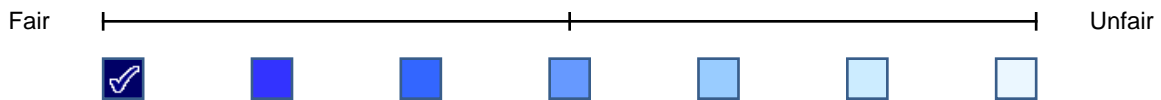
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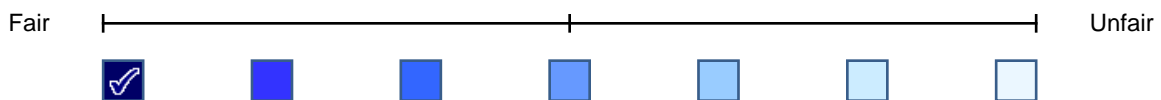
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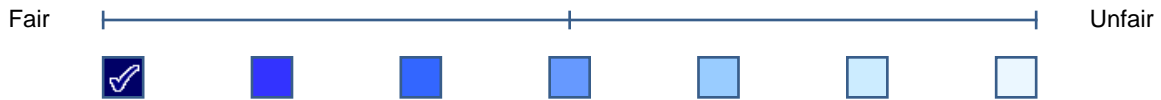
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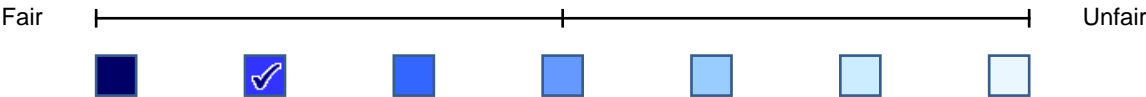
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Name:	Deheng Song
Job Title:	
Institution:	Virginia Tech
Title of Work Used:	Planck 2018 results. VI. Cosmological parameters
Copyright Holder:	Planck Collaboration
Publication Status:	Published
Publisher:	Astronomy & Astrophysics (EDP Sciences)
Place of Publication:	France
Publication Year:	2020
Description of Work:	Figure 1 of the work is used in my Ph.D. dissertation for educational and informational purposes.
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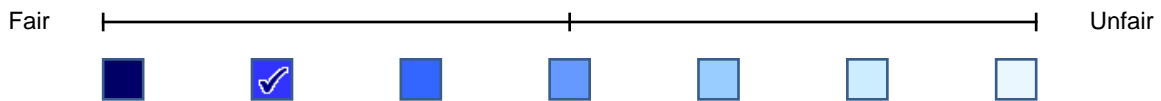
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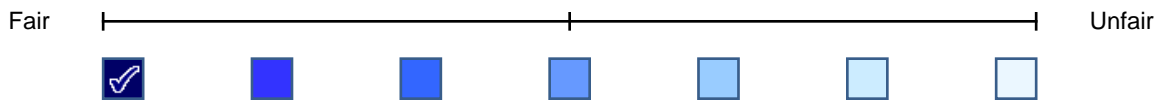
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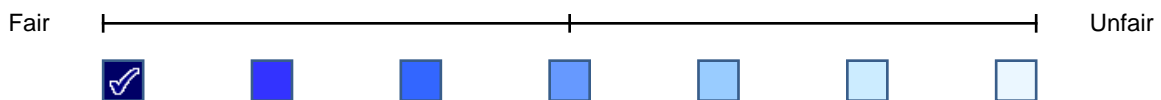
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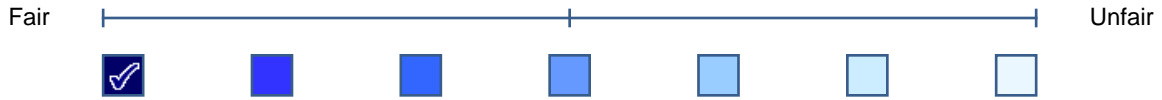
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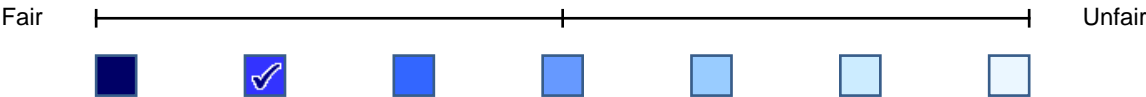
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Name:	Deheng Song
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Institution:	Virginia Tech
Title of Work Used:	A Direct Empirical Proof of the Existence of Dark Matter
Copyright Holder:	Douglas Clowe, MaruÅja BradaÄ•, Anthony H. Gonzalez, Maxim Markevitch, Scott W. Randall, Christine Jones, and Dennis Zaritsky
Publication Status:	Published
Publisher:	The American Astronomical Society
Place of Publication:	U.S.A.
Publication Year:	2006
Description of Work:	Figure 1 of the work is partially used in my Ph.D. dissertation for educational and informational purposes.
Date of Evaluation:	January 13, 2022
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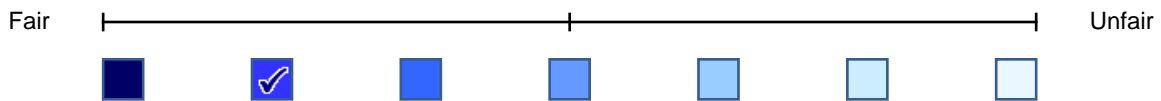
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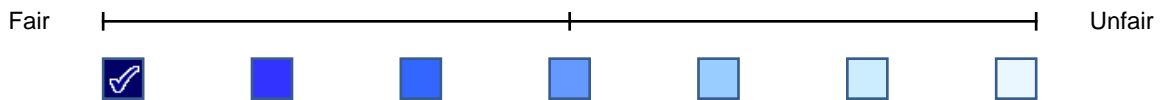
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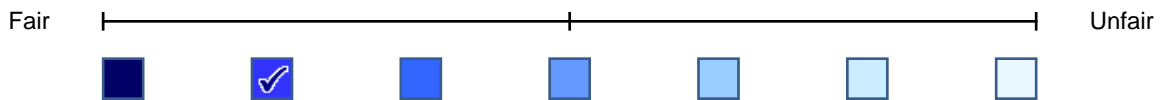
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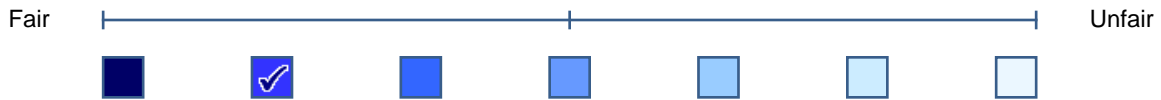
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[+] Proper attribution will be given with the intended use
[+] Use of the work minimizes the potential for unauthorized use that could impact its value (i.e. steps are taken to ensure the content is not used outside of the stated purpose or audience)



The Average **"Fairness Level,"** Based on Your Rating of Each of the 4

Factors, Is:

[\[see tool disclaimer for important clarifying information\]:](#)



Based on the information and justification I have provided above, I, Deheng Song, am asserting this use is **FAIR** under Section 107 of the U.S. Copyright Code.

Signature: Deheng Song

Date of Signature: 01/13/2022

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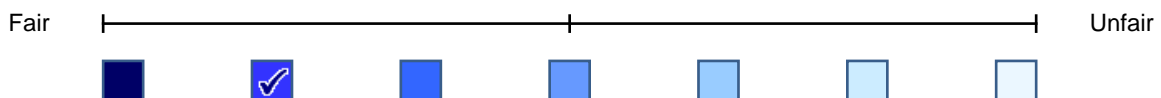
Fair Use Evaluation Documentation

Compiled using the **Fair Use Evaluator** [cc] 2008 Michael Brewer & the Office for Information Technology Policy, <http://librarycopyright.net/fairuse/>

Name:	Deheng Song
Job Title:	
Institution:	Virginia Tech
Title of Work Used:	Fermi's Five-year View of the Gamma-ray Sky
Copyright Holder:	National Aeronautics and Space Administration
Publication Status:	Published
Publisher:	
Place of Publication:	
Publication Year:	2013
Description of Work:	The article is published online (accessed by https://svs.gsfc.nasa.gov/11342). The first figure of the work is used in my Ph.D. dissertation for educational and informational purposes.
Date of Evaluation:	January 13, 2022
Date of Intended Use:	January 13, 2022

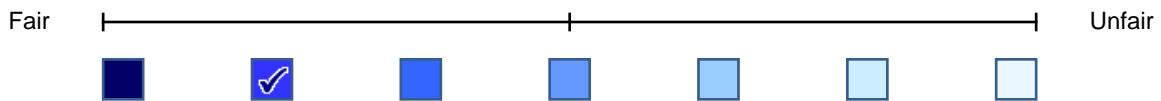
Describe the **Purpose** and Character of Your Intended Use:

[+] Use is for "criticism, comment, news reporting, teaching, (including multiple print copies for classroom use), scholarship or research"
[+] Use is not-for-profit



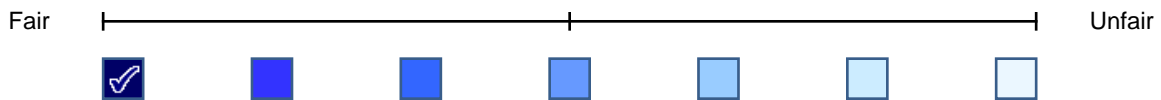
Describe the **Nature** of Your Intended Use of the Copyrighted Work:

[+] Work to be used has been previously PUBLISHED
[+] Work to be used is primarily of a factual nature (non-fiction, collection of facts, etc.)



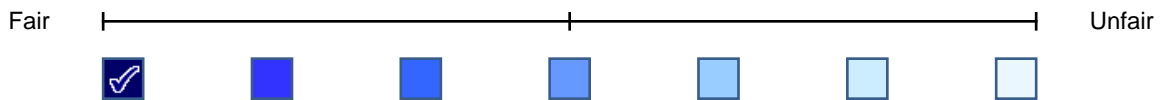
Describe the **Amount** of Your Intended Use in Relation to the Copyrighted Work as a Whole:

[+] Only limited and reasonable portions will be used
[+] Only the amount required to achieve the stated, socially-beneficial purpose or objective will be used (be that educational, artistic, scholarly, journalistic, etc.)
[+] The portion used is not the "heart" of the work (the portion considered most central to the work as a whole)



Describe the **Effect** of Your Intended Use on the Potential Market or Value of the Copyrighted Work:

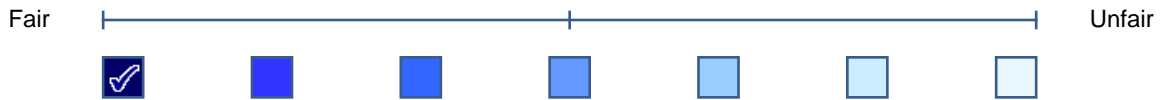
[+] A market for the work as it will be used is absent or is negligible & use of the work will have little or no negative impact on its value or potential value
[+] Use of the work has the potential to create or improve the market for the work
[+] The copy of the work to be used is a legal copy
[+] Proper attribution will be given with the intended use
[+] Use of the work minimizes the potential for unauthorized use that could impact its value (i.e. steps are taken to ensure the content is not used outside of the stated purpose or audience)



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Factors, Is:

[\[see tool disclaimer for important clarifying information\]:](#)



Other Important Criteria:

According to NASA Media Usage Guidelines: "NASA content - images, audio, video, and computer files used in the rendition of 3-dimensional models, such as texture maps and polygon data in any format - generally are not subject to copyright in the United States. You may use this material for educational or informational purposes, including photo collections, textbooks, public exhibits, computer graphical simulations and Internet Web pages."

Based on the information and justification I have provided above, I, Deheng Song, am asserting this use is **FAIR** under Section 107 of the U.S. Copyright Code.

Signature: Deheng Song

Date of Signature: 01/13/2022

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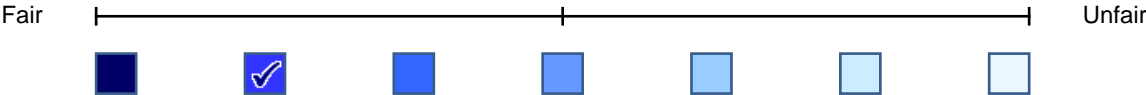
Fair Use Evaluation Documentation

Compiled using the **Fair Use Evaluator** [cc] 2008 Michael Brewer & the Office for Information Technology Policy, <http://librarycopyright.net/fairuse/>

Name:	Deheng Song
Job Title:	
Institution:	Virginia Tech
Title of Work Used:	Extended rotation curves of spiral galaxies: dark haloes and modified dynamics
Copyright Holder:	K. G. Begeman, A. H. Broeils, R. H. Sanders
Publication Status:	Published
Publisher:	Monthly Notices of the Royal Astronomical Society
Place of Publication:	United Kingdom
Publication Year:	1991
Description of Work:	Figure 1 of the work is partially used in my Ph.D. dissertation for educational and informational purposes.
Date of Evaluation:	January 13, 2022
Date of Intended Use:	January 13, 2022

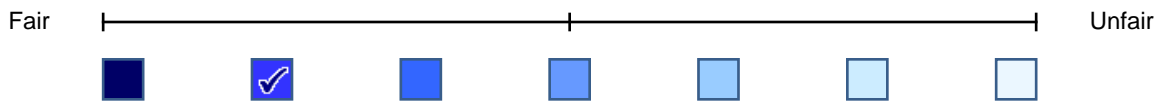
Describe the **Purpose** and Character of Your Intended Use:

[+] Use is for "criticism, comment, news reporting, teaching, (including multiple print copies for classroom use), scholarship or research"
[+] Use is not-for-profit



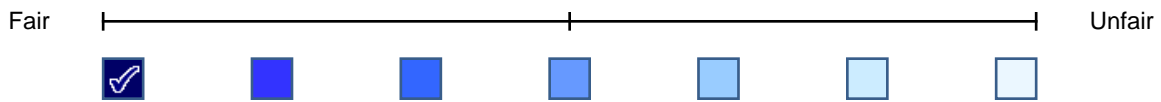
Describe the **Nature** of Your Intended Use of the Copyrighted Work:

[+] Work to be used has been previously PUBLISHED
[+] Work to be used is primarily of a factual nature (non-fiction, collection of facts, etc.)



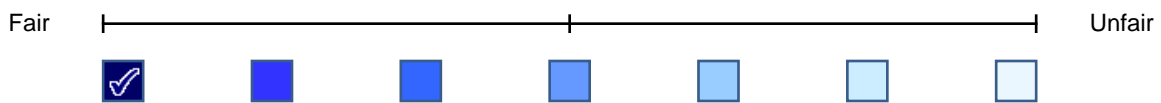
Describe the **Amount** of Your Intended Use in Relation to the Copyrighted Work as a Whole:

[+] Only limited and reasonable portions will be used
[+] Only the amount required to achieve the stated, socially-beneficial purpose or objective will be used (be that educational, artistic, scholarly, journalistic, etc.)
[+] The portion used is not the "heart" of the work (the portion considered most central to the work as a whole)



Describe the **Effect** of Your Intended Use on the Potential Market or Value of the Copyrighted Work:

[+] The work is NOT currently under commercial exploitation (out of print, no licensing available, etc.)
[+] A market for the work as it will be used is absent or is negligible & use of the work will have little or no negative impact on its value or potential value
[+] Use of the work has the potential to create or improve the market for the work
[+] The copy of the work to be used is a legal copy
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