Introduction

Approximately 400 years ago, Galileo Galilei had revolutionized astronomy with the use of telescopes to look up into the heavens. Around the years of 1609, he in fact had improved the basic modelling of telescopes and made discoveries that challenged the original geocentric model of the universe. His findings included the Galilean Moons, which are four moons which orbit Jupiter – Io, Europa, Ganymede, as well as Callisto – which provided solid evidence that not every celestial body orbited the earth. He later also discovered the phases of Venus, which demonstrated and was further proof that Venus orbits the Sun and not the Earth. These discoveries rather supported Copernicus's heliocentric model.

Galileo also further discovered many properties of our local Moon. He noted mountains and craters, contradicting the popular belief that celestial bodies are perfect spheres as the belief followed that the heavens were perfect. His observations of sunspots also showed that even the Sun was not immutable. Lastly he also revealed that the Milky Way consisted of countless stars, which expanded our premise of the known universe.

These observations were extremely significant in changing the perspective and belief of the universe being Geocentric. This was a model in which society had full faith that our planet, Earth, was at the center of the universe and instead he proved a Heliocentric Model. Galileo essentially established the groundwork of modern astronomy by providing empirical evidence and observations which challenged the beliefs at the time.\

Motivated by Galileo's past pioneering work, our group was heavily influenced and inspired to have our own observations of certain celestial objects that he once viewed. Utilizing modern refracting telescopes which mimic Galilean telescopes, we examined Jupiter, Saturn, our Moon as well as the M31 Andromeda Galaxy. While Galileo did work with narrow field of views, and small magnifications with his telescopes, using the same type of telescope today allowed us to further appreciate his discoveries. It definitely gave us more insight and further appreciation for his contributions with the tools he once used. The following observations reaffirm the significant impact of Galileo's work and highlight his progress in our understanding of the universe.

Observations

Jupiter - Appendix A: Jupiter Observations

(INSERT TEXT HERE)

Moon – Appendix B: Moon Observations

(INSERT TEXT HERE)

Saturn - Appendix C: Saturn Observations

(INSERT TEXT HERE)

Extra Celestial Body M31 Andromeda - Appendix D: M31 Andromeda Observations

(INSERT TEXT HERE)

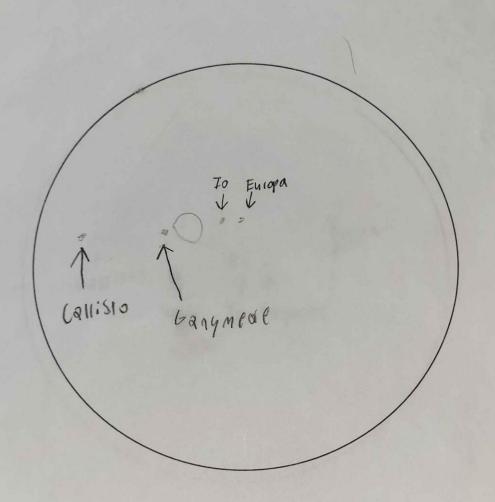
Discussion

(INSERT TEXT HERE)

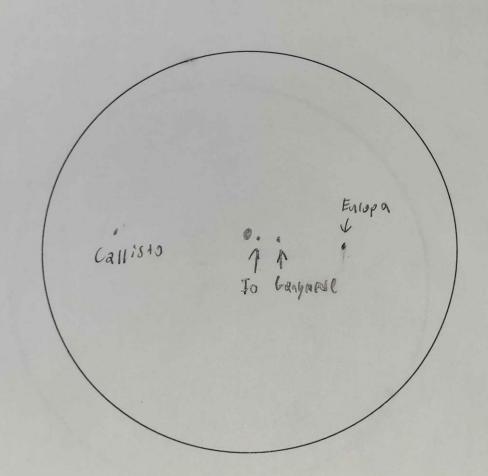
Appendix A: Jupiter Observations

Galileo	Project - Observations
Object: Jugac	Altitude and Direction: 11° 3 83°
Date: Oct # 2021	Time: 10:14 PM
Observers: Denn's Martin,	James Meder
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	- Supplier Meons

Object: Japiter	Altitude and Direction: 11°, 83°
Date: 0(+ 194 n 2024	Time: 10:13 PM
Observers: 50 Mes	Deanis



Object: JN VILL		Altitude and Direction: 14 deg , 73 deg		
Date:	NoV	end	Time: 9:10	PM
Observers:	Denn	15 5 am	e5	



Galileo Project	ct - Observations Altitude and Direction: 18° 73° EN E
Date: 0(+0681 19+M	
Observers: Dennis Jo	
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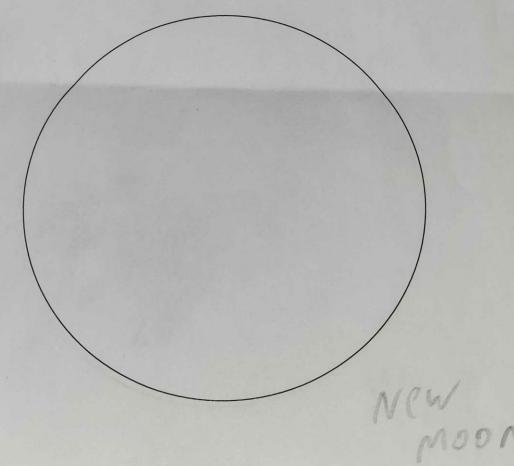
Object: Moon

Altitude and Direction: 25° 195° 55 W

Date: NOV 15+ 2024 Time: 2:00 PM

Observers: Concept Gal.

Use This fact during your analysis of The moon's phases



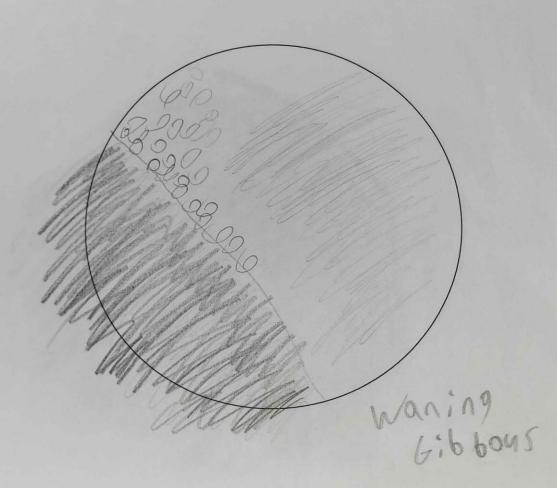
Object: The MOON	Altitude and Direction: 44° 142° SE
Date: NOV 12th	
Observers: Dennis	James



Object:	Moon	Altitude and Direction: 10, 7° 83, 40° 1	

Date: NOV 23 (8) Time: 12;46 a M

Observers: James M Dennis



-	TAD	0000	40	1000	ESE
Object:	1100	MOON	Altitude and Direction:		_

Date: NOV 26th 2024 Time: 3:17 am

Observers: James Mata



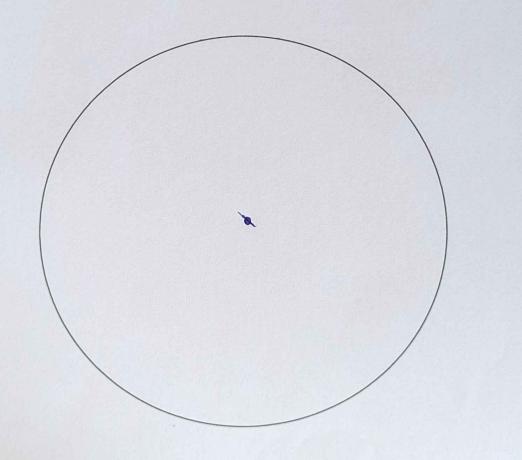
Appendix C: Saturn Observations

Galileo Proje	ect - Observations
Object: Sakur	Altitude and Direction:
Date: Oct 3 2024	
Observers: Onnis Matth, Jamos	Meder

Object: So Aum Altitude and Direction: 35°, 180°

Date: Oct 26 2024 Time: 6:40 PM

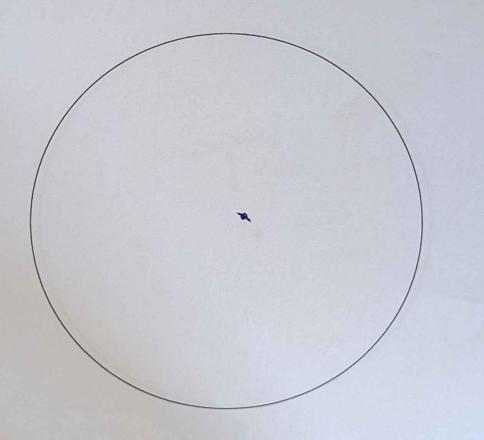
Observers: Dennis Maran, James Mater



Object: Schwn Altitude and Direction: 37° 2 180°

Date: Nov 7 2074 Time: 9:30 PM

Observers: Dennis Mouthn; James Marta



Galileo Proje	ct - Observations
Object: M31 Andremedu	Altitude and Direction: 68°) 93°
Date: Oct 78 2024	Time: 10:08 PM
Observers: Ounts Martin, James	3 MeNer
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Object: M31 Andronton Altitude and Direction: 85°, 354°

Date: 0ct 26 2024 Time: 4:00 8M

Observers: Dennis Martin, James Mata

