Proposal Title (exactly as it appears on submission): The Detailed Physical Structure of the Circumgalactic Medium

Year 1			
Milestone	Details	Dates	Status (renewals only)
RM.A Develop fiducial tur-	Resources: Summit Node hours: 175k M		
bulent CGM model and run	Filesystem storage (TB and dates): 200 TB, 1/19 - 6/19		
resolution study, including	Archival storage (TB and dates): 150 TB, 3/19 - 6/20	1/19 - 6/19	N/A
first petascale simulation of	Software Application: Cholla		
the CGM.	Dependencies: N/A		
RM.B Parameter study: Run suite of turbulent box simulations at varying CGM pressure and mach number.	Resources: Titan Node hours: 355k		
	Filesystem storage (TB and dates): 200 TB, 7/19 - 12/19		
	Archival storage (TB and dates): 350 TB, 7/19 - 6/20	6/19 - 12/19	N/A
	Software Application: Cholla		
	Dependencies: RM.A		
RM.C Compute ionization fractions for various species using results of all simulations and generate compar-	Resources: Rhea Node hours: 100k		
	Filesystem storage (TB and dates): 200 TB, 1/19 - 12/19		
	Archival storage (TB and dates): 500 TB, 3/19 - 6/20	7/19 - 12/19	N/A
	Software Application: Python analysis scripts	1/17 12/17	1 1/11
isons to observations of the	Dependencies: RM.A, RM.B		
CGM.	Dependencies, Idina, Idina		