

cases	doc_1		doc_2		decision	id	
					DUPLICATES	977	
			authors <ul style="list-style-type: none">• B. Prather• G. Wong• Vedant Dhruv• B. Ryan• J. Dolence• S. Ressler• C. Gammie				
	authors						
	title	Iharm3D: Vectorized General Relativistic Magnetohydrodynamics					
	publication_date	2021-10-19 00:00:00					
	source	SupportedSources.PAPERS_WITH_CODE					
	journal						
	volume						
	doi						
	urls	<ul style="list-style-type: none">• https://arxiv.org/pdf/2110.10191v1.pdf• https://github.com/afd-illinois/iharm3d					
	id	id5360835151102714628					
	abstract	Iharm3D is an open-source C code for simulating black hole accretion systems in arbitrary stationary spacetimes using ideal general-relativistic magnetohydrodynamics (GRMHD). It is an implementation of the HARM ("High Accuracy Relativistic Magnetohydrodynamics") algorithm outlined in Gammie et al. (2003) with updates as outlined in McKinney & Gammie (2004) and Noble et al. (2006). The code is most directly derived from Ryan et al. (2015) but with radiative transfer portions removed. HARM is a conservative finite-volume scheme for solving the equations of ideal GRMHD, a hyperbolic system of partial differential equations, on a logically Cartesian mesh in arbitrary coordinates.					
	versions						
			title	iharm3D: Vectorized General Relativistic Magnetohydrodynamics			
			publication_date	2021-10-14 00:00:00			
			source	SupportedSources.SEMANTIC_SCHOLAR			
			journal	J. Open Source Softw.			
			volume	6			
			doi	10.21105/joss.03336			
			urls	<ul style="list-style-type: none">• https://www.semanticscholar.org/paper/06dc40951b9392d9a266e4f0f2de0d3267d2f717			
			id	id985806835712986271			
			abstract	Iharm3D is an open-source C code for simulating black hole accretion systems in arbitrary stationary spacetimes using ideal general-relativistic magnetohydrodynamics (GRMHD). It is an implementation of the HARM ("High Accuracy Relativistic Magnetohydrodynamics") algorithm outlined in Gammie et al. (2003) with updates as outlined in McKinney&Gammie (2004) and Noble et al. (2006). The code is most directly derived from Ryan et al. (2015) but with radiative transfer portions removed. HARM is a conservative finite-volume scheme for solving the equations of ideal GRMHD, a hyperbolic system of partial differential equations, on a logically Cartesian mesh in arbitrary coordinates.			
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