	doc_1		doc_2		decision	id
cases	authors	Ben Prather Martin N. Stienen Vedant Dhruv Benjamin J. Ryan	authors			
			title	Iharm3D: Vectorized General Relativistic Magnetohydrodynamics		
		 Joshua C. Dolence Sean M. Ressler		2021-10-19 00:00:00		
		Charles F. Gammie	source	SupportedSources.PAPERS WITH CODE		
			journal			
	title	iharm3D: Vectorized General Relativistic Magnetohydrodynamics	volume			
	nublication date	2021-10-14 00:00:00	doi]	
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	journal	Journal of open source software	uris	https://github.com/afd-illinois/iharm3d		
	volume	6	id	id5360835151102714628		
	doi	10.21105/joss.03336		Iharm3D is an open-source C code for simulating black hole accretion systems in arbitrary stationary spacetimes using ideal general-relativistic		
	urls	 https://openalex.org/W3207746711 https://doi.org/10.21105/joss.03336 https://joss.theoj.org/papers/10.21105/joss.03336.pdf 	abstract	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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