Tuesday 3/24

07:30- Breakfast [Copper Conference Center] 08:30

	n 8A: Preconditioning. Bighorn ghorn B		n 8B: Quantum Linear Algebra thms I. Bighorn C/1 Bighorn		n 8C: Transport and Nuclear ations. Bighorn C/2 Bighorn
08:00	An implicit approach to phase field modeling of solidification for metals and alloys Christopher Newman Marianne Francois, Supriyo Chosh	08:00	Quantum Computing From a Linear Algebra Perspective Chao Yang	08:00	Domain Decomposed Monte Carlo Transport on GPUs in Shift Steven Hamilton Thomas Evans
08:25	Recurrent use of AL preconditioner for fluid equations on manifolds. Maxim Olshanskiy Alexander Zhiliakov	08:25	Variational quantum algorithms running on quantum supreme chips Jarrod McClean	08:25	Scalable multilevel domain de- composition methods with SG coarse spaces for the multi- group neutron transport equa- tions Fande Kong
08:50	Enhanced Relaxed Physical Factorization Preconditioner for Three-Field Poroelasticity Matteo Frigo Nicola Castelletto, Massimiliano Ferronato	08:50	Low-depth gradient measurements can improve convergence in variational hybrid quantum-classical algorithms Aram Harrow John Napp	08:50	Multimaterial, three temperature radiation-hydrodynamics solver for ICF applications Hyeongkae Park Marc Charest
09:15	Spectral-based fast solvers for finite volume discretizations of a conservative fractional diffusion problem Ken Trotti Mariarosa Mazza, Marco Donatelli, Rolf	09:15	Quantum linear system solver based on time-optimal adiabatic quantum computing and quantum approximate optimization algorithm Dong An Lin Lin	09:15	Iterative Methods for Thermal Radiation Transport with Multi- ple Preconditioners Andrew Till Jim Warsa
09:40	_	09:40	_	09:40	Data motion analysis for Implicit Monte Carlo on CPUs and GPUs Alex Long

	on 9A: Eigenvalue and SVD outations. Bighorn B Bighorn		n 9B: Quantum Linear Algebra thms II. Bighorn C/1 Bighorn		
10:25	5 Hybrid Iterative Refined Methods for Symmetric Eigenvalue Problems Jennifer Picucci James Baglama	10:25	Quantum primitives and quantum linear algebra Lin Lin	10:25	Matrix-free preconditioning for high-order finite elements Andrew Barker
10:50	D Low-Rank Stopping Criteria for Block Parallel SVD Steven Goldenberg Andreas Stathopoulos	10:50	Eigenstate filtering with application to quantum linear systems Lin Lin Yu Tong	10:50	Preconditioning for a Stabilized Mixed-Hybrid Formulation of Biot's Poroelasticity Equations Nicola Castelletto Massimiliano Ferronato Matteo Frigo, Joshua White
11:15	5 HiSVD: A Hybrid Incremental SVD Method for Streaming Large, Sparse Matrices Jeremy Myers Andreas Stathopoulos	11:15	Quantum state verification in linear algebra problems Rolando Somma _{Yigit Subasi}	11:15	Peclet-robust preconditioners for singularly perturbed convection-diffusion equations Scott MacLachlan Niall Madden, Thai Nhan
11:40	Computing Generalized Matrix Functions with Singular Value Estimation Ru Huang Yuanzhe XI, Michele Benzi	11:40	Quantum algorithm for linear systems and applications to plasma dynamics Hari Krovi	11:40	Nonsymmetric block preconditioners and heterogeneous DSA, compatible with voids Ben Southworth
12:05	Domain decomposition Rayleigh-Ritz approaches for symmetric generalized eigenvalue problems Vasileios Kalantzis	12:05	_	12:05	Multiscale preconditioning for coupled porous media flow and geomechanics on unstructured grids Sergey Klevtsov Nicola Castelletto, Hamdi

16:30- Session 10A: Algebraic Precondition 18:35 ers. Bighorn B Bighorn B	n- 16:30-Session 10B: Quantum Linear Al- 18:35 gebra Algorithms III. Bighorn C/1 Bighorn C/1	16:30-Session 10C: UQ and Montecarlo 18:35 methods. Bighorn C/2 Bighorn C/2
16:30 Preconditioners based on e hanced structured incomple factorization (eSIF) for gene SPD matrices Jianlin Xia	ete for Quantum Circuit Synthesis	16:30 An efficient solver for nonlinear Bayesian inverse problems Akwum Onwunta Howard Elman
16:55 Leveraging One-Sided Comm nication for Sparse Triangu Solvers Sherry Li Nan Ding, Samuel Williams, Yang Liu		16:55 Multilevel Monte Carlo with improved correlation for kinetic equations in the diffusive scaling Emil Loevbak Giovanni Samaey, Stefan Vandewalle
17:20 Multicolor Block Gauss-Seid using Kokkos Brian Kelley Siva Rajamanickam	del 17:20 High-precision quantum algo- rithms for partial differential equations Andrew Childs Jin-Peng Liu, Aaron Ostrander	17:20 A Discrete-time Cancer Im- munotherapy Model under the Kolmogorov Equation View and the Reaction-Diffusion Model Ye Li
17:45 SSAI: A symmetric spa approximate inverse preco ditioner for the conjuga gradient methods PCG a PCGLS Shaked Regev Michael Saunders	on- ate	17:45 Exploiting Sparsity in the Estimation of Gaussian Mixture Models Shahaf Finder Eran Treister, Oren Freifeld
18:10 —	18:10 —	18:10 Deflation and preconditioning strategies for sequences of sampled stochastic elliptic equations Nicolas Venkovic Paul Mycek, Luc Giraud, Olivier Le Maître