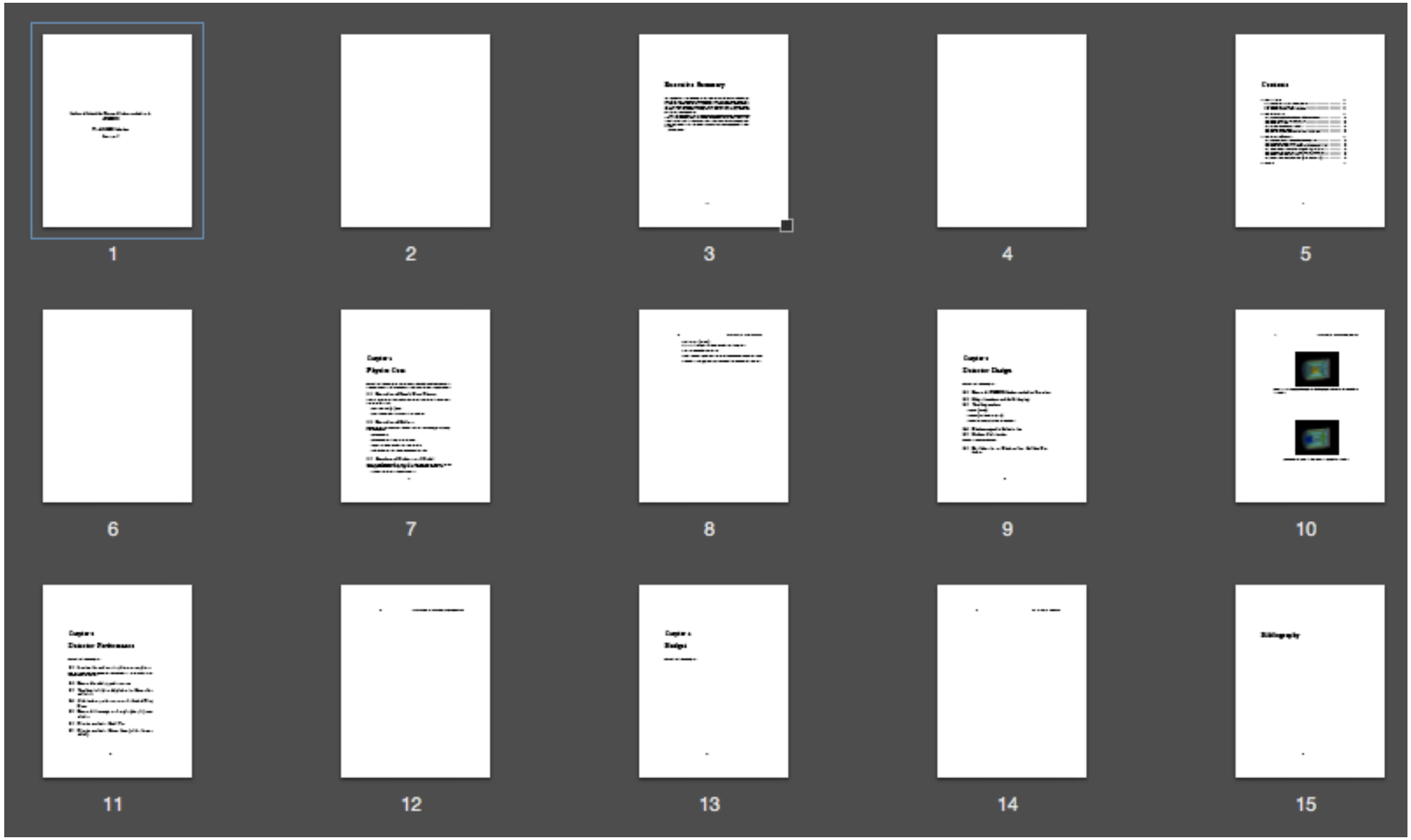
Timeline for forward-sPHENIX LOI

	4/24 Today	4/25	4/26	4/27	4/28	4/29
4/30	5/1	5/2	5/3	5/4	5/5 Complete first draft	5/6
5/7	5/8 TG Meeting Discuss draft	5/9	5/10	5/11	5/12	5/13
5/14	5/15	5/16 Workfest @SBU	5/17 Workfest @SBU	5/18 Workfest @SBU	5/19 Submit to Collaboration	5/20
5/21	5/22 TG Meeting Discuss draft	5/23	5/24	5/25	5/26	5/27
5/28	5/29	5/30	5/31	6/1 Submit to ALD		

Forward-sPHENIX LOI Document on Overleaf



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Forward-sPHENIX LOI Sections

	Section	Authors
	Executive Summary	
Physics Case	Intro	Christine A.
Physics Case	Formation of Quark Gluon Plasma:	
	Formation of Quark Gluon Plasma	Takao S., Vitalii O.
Physics Case	Formation of Hadrons:	
	Spin-momentum correlations in hadronization (Collins, Twist-3)	Ralf S.
	Nuclear modification of hadronization (Nuclear FF's)	
Physics Case	Structure of Nucleons and Nuclei:	
	Spin-spin correlations inside the nucleon (Transversity)	
	Spin-momentum correlations in the nucleon (Sivers, Twist-3, Boer-Mulders)	
	Nuclear PDF's (forward = lower x-range)	
	Gluon Saturation	

Forward-sPHENIX LOI Sections

	Section	Authors
Detector Design	Intro	
	Forward-sPHENIX Instrumentation Overview	
	Magnet system and field shaping	Jin H., Haiwang Y.
	Tracking system	Jin H., Haiwang Y.
	Electromagnetic Calorimeter	Sasha B., (Gabor D.)
	Hadron Calorimeter	Yuji G., Ralf S.
	mRICH Option	Xiaochun H., Ping W.
	Evolution to an Electron Ion Collider Detector	Nils F.
Detector Performance	Intro	
	Luminosity and running time assumptions	
	Forward tracking performance	Jin H., Haiwang Y.
	Tracking in high multiplicity, i.e. Heavy Ion collisions	
	Calorimeter performance and effect of Plug Door	
	Forward jet energy and angle (eta, phi) resolution	Joe O.
	Physics analysis: Drell-Yan	John L.
	Physics analysis: Distribution of hadrons within jets	
	Physics analysis: Heavy Ions (forward-central particle corr.; energy flow?)	
Budget	Budget	John L.