

JSA Initiatives Fund Proposal Summary Sheet

Proposal title: <u>Transverse Parton Structure of Hadrons</u>	
<input checked="" type="checkbox"/> New proposal	<input type="checkbox"/> Renewal
Total funds requested <u>\$ 10,000</u>	Leveraged support / Matching resources <u>14k \$</u> Yes <input type="checkbox"/> No <input type="checkbox"/>
If your proposal includes leveraged support or anticipates matching resources, identify source, amount, and secure the signature of an authorized representative of the source.	
Source/Amt <u>Yerevan Phys. Inst. \$ 3,000</u>	Authorized Signature: <u>Norair Akopov</u>
Source/Amt <u>Univ. of Connecticut \$ 2,000</u>	Authorized Signature: <u>Kyungseon Joo</u>
Source/Amt <u>Argonne Nat. Lab \$ 3,000</u>	Authorized Signature: <u>Kawtar Hafidi</u>

Principal Investigator (PI) <u>Kawtar Hafidi</u>
<input type="checkbox"/> JLab employee Associate Director signature _____
<input checked="" type="checkbox"/> JLab user Name of university _____
<input type="checkbox"/> Other Name of institution <u>Argonne National Laboratory</u>
PI's Mailing Address <u>Physics Division, Bldg 203 Room C-258</u> <u>9700 South Cass Av, Argonne, IL 60439</u>
PI's Telephone / E-Mail <u>Phone: 630-252-4012 Email: kawtar@anl.gov</u>
Co-PI's (with affiliation) <u>Harut Avakian (Jefferson Lab), Kyungseon Joo (University of Connecticut)</u>

Executive summary including the projected begin/end dates. Studies of the transverse structure of the nucleon at Jefferson Lab, including the transverse space distributions of partons, encoded in Generalized Parton Distributions (GPDs), and transverse momentum distributions of partons, encoded in Transverse Momentum Distributions (TMDs) are one of the main driving forces behind the CEBAF 12 GeV upgrade. In order to expand the international context to the GPD/TMD physics program and attract more collaborators we are planning to have a <b>week-long workshop on Transverse Parton Structure of Hadrons</b> to be held in <b>late June of 2009</b> at <b>Yerevan Physics Institute</b> in Yerevan (Armenia). The main focus of the program will be on the question how we can increase --- on the basis of already existing and future data as well as lattice calculations --- our understanding of the interesting transverse momentum, spin and position structure of hadrons. We are requesting financial support from JSA to help facilitate this workshop.
Synopsis of scientific, educational, technical, and/or business merits, and alignment with and significance to Lab's current programs. With large number of proposals already approved by 12 GeV JLab PAC, the GPD/TMD communities are in process of growth. It is important to involve experts from collaborations at HERA and CERN involved in first experiments on the transverse structure studies, in JLab12 physics programs. Establishing links between JLab12 and other facilities worldwide, in particular in Europe and Asia, facilities such as JPARC in Japan, GSI in Germany as well as Electron Ion Collider in US significantly expand the support of JLab12 physics program and attract new collaborators. That should strengthen the JLab12 GPD/TMD communities and also the Jefferson Lab user community as a whole.
Proposed evaluation plan to measure success. If this is a request for renewal of funds, assessment of prior year performance. The measurable outcome would be increased worldwide support for JLab physics program leading to new collaborators interested in studies of the transverse structure of nucleon at JLab.

Authorized signature for proposal from:	
JLab employee	Lab Director signature _____
JLab user	JLab Users Group Board Chair <u>Ronald Gilman</u>
Other	Institutional authorization _____

Office of SURA Chief of Strategic Services – Internal Use		
Proposal received:	Submitted for review:	Disposition: