

**SRC**

**CT and photon structure**

**Bound nucleon modification**

**Glue structure**

**Hadronic**

**BSM**

**QCD**

**SRC** – Jackson, Phoebe, Tim

**CT and photon structure** – Bhesha

**Bound nucleon modification** – possibly Jackson, Phoebe, Tim

**Gluon structure** – Jackson, Nathaly

**Hadronic** – Phoebe, Bo

**BSM** – collaborative work with Mike W? with possibly Jackson, Phoebe

**QCD** – Phoebe

## SRC

Tensor Dominance of Nuclear SRCs using  $\rho_0$  Photoproduction  
Tensor-to-Scalar Transition in Nuclear SRC using  $\rho_0$  and  $\rho$ -  
Relative SRC Abundance in Light Nuclei using High-Momentum Scaling in  $\rho_0$

## CT and photon structure

CT in Light Nuclei with  $\pi$ -  
CT in Light Nuclei with  $\rho_0$

## Bound nucleon modification

Branching Ratio Modification  
Gluon Structure of Bound Proton with Incoh. VM Photoproduction  
Pion Cloud of the Bound Proton with Incoh. Pion Photoproduction  
Pion Cloud of the Bound neutron

## Gluon structure

Gluon Radius of Light Nuclei using Coherent VM Photoproduction  
Sub-Threshold  $J/\psi$  Photoproduction from Light Nuclei  
 $J/\psi$  production on neutron from light nuclei

## Hadronic

$\phi$  photoproduction on neutron  
Beam spin asymmetries in  $d(\gamma, \pi^0)$ ,  $d(\gamma, \pi^0 p)n$ ,  $d(\gamma, \pi^- p)p$   
K- mass modification in medium

## BSM

Axion-Like particle search in coherent di-photon production  
 $A'$  search/ QED mesons, Anomalous soft photon  
KTeV anomaly

## QCD

Dominance of handbag mech ( $d(\gamma, \pi^- p)p/d(\gamma, \pi^+ n)n$ )  
Constituent Scaling in Deuteron Photodisintegration to  $E_\gamma=8$  GeV  
Hidden color searches in the ratio  $\gamma d \rightarrow \Delta^{++} \Delta^-$  to  $\gamma d \rightarrow p n$   
Hidden color searches in the ratio  $\gamma d \rightarrow J/\psi p n$  to  $\gamma d \rightarrow p n$

## SRC

Tensor Dominance of Nuclear SRCs using  $\rho_0$  Photoproduction (Phoebe, Tim)

Tensor-to-Scalar Transition in Nuclear SRC using  $\rho_0$  and  $\rho^-$  (Jackson, Tim)

Relative SRC Abundance in Light Nuclei using High-Momentum Scaling in  $\rho_0$  (Tim)

## CT and photon structure

CT in Light Nuclei with  $\pi^-$  (Bhesha)

CT in Light Nuclei with  $\rho_0$  (Bhesha)

## Bound nucleon modification

Branching Ratio Modification (Tim)

Gluon Structure of Bound Proton with Incoh. VM Photoproduction

Pion Cloud of the Bound Proton with Incoh. Pion Photoproduction

Pion Cloud of the Bound neutron (Phoebe)

## Gluon structure

Gluon Radius of Light Nuclei using Coherent VM Photoproduction (Jackson, Nathaly)

Sub-Threshold  $J/\psi$  Photoproduction from Light Nuclei

$J/\psi$  production on neutron from light nuclei

## Hadronic

$\varphi$  photoproduction on neutron (Bo)

Beam spin asymmetries in  $d(\gamma, \pi^0)$ ,  $d(\gamma, \pi^0 p)n$ ,  $d(\gamma, \pi^- p)p$  (Phoebe)

K- mass modification in medium

## BSM

Axion-Like particle search in coherent di-photon production (Jackson, Phoebe, others)

$A'$  search/ QED mesons, Anomalous soft photon

KTeV anomaly

Dominance of handbag mech ( $d(\gamma, \pi^- p)p/d(\gamma, \pi^+ n)n$ )

Constituent Scaling in Deuteron Photodisintegration to  $E_\gamma=8$  GeV (Phoebe)

Hidden color searches in the ratio  $\gamma d \rightarrow \Delta^{++} \Delta^-$  to  $\gamma d \rightarrow p n$

Hidden color searches in the ratio  $\gamma d \rightarrow J/\psi p n$  to  $\gamma d \rightarrow p n$

## QCD