

BI - first program

run morning | afternoon & evening

December 16, 1950

Rochester High Energy Physics Conference

Program

I Experiments with Nucleons and μ -Mesons (Chairman-Pais) (10 - 12 A.M.)

	<u>Minutes</u>
Proton-Proton Scattering	
110 Mev. (Ramsey-Harvard)	10
240 Mev. (Oxley - Rochester)	5
Discussion	40
Interaction of Nucleons with Nuclei	
Proton-induced Stars	
110 Mev. (Ramsey-Harvard)	5
240 Mev. (Ferry-Rochester)	5
385 Mev. (Booth - Columbia)	10
Quasi-elastic scattering (Panofsky-Berkeley)	10
Discussion	15
<u>μ-Mesons</u>	
μ^- absorption (Reynolds-Princeton)	5
Mass from $\pi-\mu$ Decay (Booth-Columbia)	5
Discussion	10
	<hr/> 120

II Experiments with π and τ Mesons (Chairman-Oppenheimer) (2 - 5 P.M.)

π -Mesons

Angular distribution of π^+ in p-p collisions (Panofsky-Berkeley)	30
Absorption of π^- in hydrogen and deuterium	
Discussion	40
Interaction of π -Mesons with nuclei (Bernardini-Columbia)	10
(Wilson-Cornell)	5
Discussion	15

Possible electron decay (Rainwater-Columbia)	5
Discussion	5
Multiple production	
Angular distribution of hard showers (Bristol work reported by Shapiro)	10
High energy mesons in extensive air showers (Greisen-Cornell)	5
Discussion	35

T-Mesons

Evidence for (Rossi-M.I.T.)	5
Evidence for (Manchester work reported by Shapiro)	5
Discussion	<u>10</u>
	180

III Experiments with Photons and Electrons (Chairman-Bethe)(7:30 - 9:30 P.M.)

Meson Production by Photons

Energy dependence of π^+ cross section (Kerst-Illinois)	10
π^0/π^+ ratio (Wilson-Cornell)	5
π^0 production in hydrogen (Panofsky-Berkeley)	15
Discussion	30

Photon Interaction with Nuclei

Stars (Kikuchi-Cornell)	10
Discussion	5

Electromagnetic effects

Absorption of photons (DeWire-Cornell)	10
Bremsstrahlung of electrons (DeWire-Cornell)	5
(Kerst-Illinois)	5
Tridents (Bristol work reported by Shapiro)	10
Discussion	10

Proton Bremsstrahlung (Wilson-Rochester)

5
<u>120</u>

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Program

I Experiments with Nucleons and μ -Mesons (Chairman-Pais) (10 - 12 A.M.)

Proton-Proton Scattering

Minutes

X 110 Mev. (Ramsey-Harvard)	<i>See n-p scatt.</i>	10
X 240 Mev. (Oxley - Rochester)	<i>(charge-exchange)</i>	5
Discussion	<i>π^+</i>	40

Interaction of Nucleons with Nuclei

Proton-induced Stars

110 Mev. (Ramsey-Harvard)	5
240 Mev. (Ferry - Rochester)	5
385 Mev. (Booth - Columbia)	10

~~Quasi-elastic scattering (Panofsky-Berkeley) 10~~

~~Discussion 15~~

μ -Mesons

<input checked="" type="checkbox"/> μ^- absorption (Reynolds-Princeton)	5
Mass from $\pi-\mu$ Decay (Booth-Columbia)	5
Discussion	10
	<u>120</u>

II Experiments with π and τ Mesons (Chairman-Oppenheimer) (2 - 5 P.M.)

π -Mesons

<input checked="" type="checkbox"/> Angular distribution of π^+ in p-p collisions (Panofsky-Berkeley)	30
<input checked="" type="checkbox"/> Absorption of π^- in hydrogen and deuterium	
Discussion <i>Marshall Gruenher</i>	40
Interaction of π -Mesons with nuclei (Bernardini-Columbia)	10
(Wilson-Cornell)	5
Discussion	15

Minutes

✓ Possible electron decay (Rainwater-Columbia)

5

Discussion

5

Multiple production

Angular distribution of hard showers (Bristol work reported by Shapiro)

10

High energy mesons in extensive air showers (Greisen-Cornell)

5

Piccioni
Discussion

35

✓ τ -Mesons

Evidence for (Rossi-M.I.T.)

5

Evidence for (Manchester work reported by Shapiro)

5

Discussion

10

180

III Experiments with Photons and Electrons (Chairman-Bethe) (7:30 - 9:30 P.M.)

Meson Production by Photons

✓ Energy dependence of π^+ cross section (Kerst-Illinois)

10

~~π^0/π^+ ratio (Wilson-Cornell)~~

~~5~~

✓ π^+ production in hydrogen (Panofsky-Berkeley)

15

Discussion

Braeckner
Marshall (Wilson-Cornell)

30

Photon Interaction with Nuclei

Stars (Kikuchi-Cornell)

10

Discussion

5

Electromagnetic effects

Absorption of photons (DeWire-Cornell)

10

Bremsstrahlung of electrons (DeWire-Cornell)
(Kerst-Illinois)

~~5~~

~~6~~

~~Tridents (Bristol work reported by Shapiro)~~

~~10~~

Discussion

~~10~~

~~Proton Bremsstrahlung (Wilson-Rochester)~~

~~5~~

~~120~~

Feynman.