CONCLUDING REMARKS

Franco Bradamante

INFN Trieste
Impressive attendance
• Seniors and new comers

Huge amount of material
• correlations everywhere
• state of the art and perspectives
• many high level contributions
• new and revisited results and ideas …
it will take time to digest everything!
→ hence no highlights nor summary

only some personal memories from the very first times I interacted with Aram and with Stan
Stan

In the 80’s I was carrying on a series of experiments at LEAR
the Low Energy Antiproton Ring
D.V. Bugg (Queen Mary), R. Hess (Geneva Univ.), R. Bertini (Sacay/UniTO)...

1988: International School of Physics on Low Energy Antiproton Physics in Erice
F.B., J.M. Richard, R. Klapish
Stan was invited and gave a talk on
“Antiproton annihilation in quantum chromodynamics”
proceedings (still on the web): 54 pages

an important issue came up:
the \( \bar{p}p \) annihilation range, or the \( p \) annihilation radius
on the back of an envelope, Stan found the solution:

analogies with \( \mu^+e^- + \mu^-e^+ \) scattering
\( \mu^+e^- + \mu^-e^+ \rightarrow \mu^+\mu^- + \gamma's \)
\( \mu^+e^- + \mu^-e^+ \rightarrow \gamma's \) have shorter range than
\( \mu^+e^- + \mu^-e^+ \rightarrow \mu^+\mu^- + e^+e^- \)
in the same way \( \bar{p}p \rightarrow pions \) is a rearrangement process
A few years later, we were measuring SIDIS off transversely polarized deuteron asymmetries compatible with zero …

“Evidence for the Absence of Gluon Orbital Angular Momentum in the Nucleon”
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“Evidence for the Absence of Gluon Orbital Angular Momentum in the Nucleon”
Aram

My personal interest in transverse spin phenomena in hadronic physics
Spectacular spin effects seen at LEAR
and also at E704 (Trieste participation, A. Penzo et al.)
and DIS → SMC

HELP Collaboration: Hadronic ELectron Production at LEP
L. Dick, A. Penzo, B. Vuaridel, LoI: CERN/LEPC 89-10, LEPC/M88

1992: Archamp workshop, organized by R. Hess, to finalize the proposal
X. Artru, … A. Kotzinian

HELP Proposal October 1993 - Transversity (no Sivers…)
Rejected
Aram

Try again embedding transverse spin phenomena in a RICHER program with former SMC Collaborators

First **HMC, 1995**
then **COMPASS, 1996** in parallel HERMES also benefitted of the work Aram et al. had done for the HELP Proposal

25 years later we are still here !!!

All this time, Aram has been with us, worked hard, as we did, and today we can say that together we did a lot !
Aram

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Thank you, Aram !
And many thanks and congratulation to the organizers.