Adiabatic Approach to Milla Baldo-Ceolin

Dieter Haidt, DESY, March 12, 2013

# X2

Milla’s group participated in the X2 experiment. Its aim was to study the semileptonic decay in the Ramm 1.3m HLBC. There were 9 participating laboratories and among them also Aachen and thus myself as PhD student. I got familiar with Milla’s young collaborators Ciampolillo and Calimani. I saw Milla for the first time in a collaboration meeting in the NPA seminar room of CERN in 1966. This was a most memorable appearance : she entered the room, spoke for 15 minutes withour interruption and left. Everybody was impressed by her performance. At that moment I also met Jay Schneps and later, at the Heidelberg High Energy conference 1967, also his wife Lucia. They told me about the institute of Padova.

Many years passed until I met Milla from person to person. This happened in several steps.

# Jack Fry

Sergio Ciampolillo was working with Jack Fry and told me about his making violins in Madison. One day in 1972 we (Sergio and myself) left the CERN cafeteria and there was Jack Fry standing with a violin in his hand. I approached him and since he was, like me, a member of the Gargamelle collaboration we got together for physics and violins. Jack was building about one violin per week and I had the pleasure to play them. We got involved in the neutral current search and worked on the neutron background problem. We were daring to contradict Lagarrigue and solved the background problem. You know the story and some of you were critical observers. Jack returned to the States. When Rousset, the head of the TCL division, left for Paris he transferred to me the leadership of the neutrino-propan collaboration. There was again Milla’s group. Now I had several times the occasion to visit the physics Institute of Padova and finally met Milla. We had many discussions on detecting neutral current processes, in particular in context with her experiment NUE (Aachen-Padova) and the experience in distinguishing electrons from gammas. (1977 Ben Lee Memorial).

# Venice Neutrino Meetings

It was Milla’s great achievement to organize the conference *Neutrino Telescopes – guardare il mondo in un altro modo.* It was Jack Fry who arranged for me to be invited to this conference series. Milla was the *Signora dei neutrino.* After the discovery of neutrino oscillations Milla organized a special meeting 2001 to discuss in depth all relevant issues. Milla never forgot to give to the meetings also a cultural component. She asked Jack Fry to contribute *oscillations on violins.* So Jack arrived with three violins: a miserable one for 20 Dollars, a medium quality instrument and his best creation *the Bergonzi.* Everybody agreed that the miserable violin indeed sounds miserable. He then entered with a little tool and scratched wood at sensitive locations at the inside of the top. After three or four trials the audience was amazed to hear the difference and improvement in quality. The two conferences NO-VE and NEUTEL from then on were held alternatively.

After more than 20 years of organizing some of the particpants close to Milla spread the rumor that she got enough. After the conference she invited a few to a reception in a palace at Padova and all thought this is to celebrate the end. The choice to give an afterdinner speech fall on me. I pressed every botton. Sure of myself I started to quote from the Divina Commedia

*Le cose tutte quante*

*Hann’ ordine tra loro, che è forma*

*Che l’universo a Dio fa simigliante*

And suddenly I did not remember the continuation. Without hesitation Milla

*Qui veggion le alte creature l’orma*

*Dell’eterno valore il quale è fine*

*Al qual’è fatta la toccata norma*

# It was a real privilege to have been considered a friend by Milla