ACKNOWLEDGEMENTS

It is my own and deep pleasure to here thank all the people who helped me during the preparation of this thesis. The work here presented has been developed in strict and continuous collaboration with Dr.Enrico Scomparin. I am enormously grateful to Dr.Enrico Scomparin who guided my work and introduced me in the difficult world of the analysis of the NA50 data. I believe that these last years have been, up until now, the most fruitful and interesting years of my working experience.

I also thank Mrs.Sanda Dita and Mr.Serban Constantinescu for their precious help in the background calculation using the Fake Opposite Sign method which we used for the Pb-Pb set of data.

Thank you to my Supervisor Prof.E.Chiavassa, who carefully read this work and supported me when necessary, and Mrs.Claudie Gerschel who accepted to report on my work on the committee for the final examination of my PhD thesis.

Finally, I want to thank all the people in the NA50 Collaboration, and in particular the ZDC group within the same Collaboration, for their sympathy and their constant practical help.