

ALLEGATO B

UNIVERSITÀ DEGLI STUDI DI MILANO

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[Simone Monzani] CURRICULUM VITAE

INFORMAZIONI PERSONALI (NON INSERIRE INDIRIZZO PRIVATO E TELEFONO FISSO O CELLULARE)

COGNOME	MONZANI
NOME	SIMONE
DATA DI NASCITA	27/12/1981

DRIVER'S LICENCE: B

OBJECTS

MY FIRST INTEREST REGARDS PHYSICS RESEARCH.

EDUCATION

1995-2000 HIGH SCHOOL DEGREE "LICEO SCIENTIFICO F.&M. CAMPANA " IN OSIMO, ITALY.

2000-2005 I ATTENDED THE 5 YEAR COURSE IN MECHANICAL ENGINEERING AT THE UNIVERSITY OF ANCONA IN ITALY. BETWEEN 2003 AND 2004, I WORKED AT A RESEARCH PROJECT TO VALIDATE A FINITE ELEMENT ANALYSIS OF A TOOL TO TEST HAND-ARM VIBRATIONS,

15TH DECEMBER 2005 MASTER DEGREE IN MECHANICAL ENGINEERING AT THE UNIVERSITY OF ANCONA (WWW.UNIVPM.IT) DISCUSSING AN EXPERIMENTAL THESIS DONE IN PHYSICS AND MATERIALS DEPARTMENT: "HOT ZINCING IN INNOVATIVE ALLOY (Zn-AL-Sn-Pb) APPLIED TO STEELS WITH DIFFERENT REACTIVITY". FINAL MARK: 105/110.

2010-2012 ATTENDED THE 3 YEAR COURSE THE PH.D IN PARTICLE PHYSICS AT THE UNIVERSITY OF BOLOGNA. FROM 15TH TO 27TH MONTH 2012 I PARTICIPATED TO THE HADRON COLLIDER SCHOOL - HASCO AT GOTTINGEN.

20TH MARCH 2013 PHD IN PARTICLE PHYSICS AT THE UNIVERSITY OF BOLOGNA DEFENDING THE THESIS: "STUDY OF THE FORWARD PHOTON PRODUCTION IN PP COLLISIONS AT A CENTRE OF MASS ENERGY OF 7 TeV WITH THE ZDC DETECTOR OF THE ATLAS EXPERIMENT".

12TH JULY 2006 QUALIFICATION TO EXERCISE THE PROFESSION AS CHARTERED MECHANICAL ENGINEER.

JULY 2009 "IDONEITÀ INFN", THAT IS ELIGIBILITY FOR FIXED-TERM CONTRACTS WITH INFN (CONTEST INFN N. 13155/2009) VALID FOR AN EVENTUAL FIXED-TERM JOB AS THIRD LEVEL TECHNOLOGIST STAFF

PROFESSIONAL EXPERIENCE

JULY 2006-JULY 2007 RESEARCHER IN ENI'S GROUP, IN THE TECHNOLOGY DEVELOPMENT DEPARTMENT. I WORKED THROUGH SEVERAL APPLICATION SOFTWARE, AS MATHCAD AND FLEXPDE, ABAQUS, MATHLAB AND FORTRAN. I WORKED IN A RESEARCH PROJECT IN COLLABORATION WITH EXXONMOBIL BASED ON PROBABILISTIC CALCULATION ABOUT FAILURE MODES IN GAS TRANSPORTATION STRUCTURES, USING A MONTECARLO TOOL.

SEP. 2007-SEP. 2009 AFTER HAVING OBTAINED A 2 YEAR LONG CONTRACT WITH INFN, I STARTED WORKING AT CERN. THE JOB MAINLY DEALT WITH ANALYSIS, THEN AS IT WAS FORESEEN BY MY CONTRACT, SINCE SEPTEMBER 2008 MY ACTIVITY MOVED TO INFN (BOLOGNA), WHERE I PARTICIPATED TO A TEST BEAM PREPARATION FOR THE LUCID EXPERIMENT (LUMINOSITY MONITOR OF THE ATLAS EXPERIMENT). AFTER THAT I ANALYSED DATA RELATIVE TO THE SAME TEST BEAM.

JAN. 2010-SEP. 2013 MY PHD IN PARTICLE PHYSICS STARTED AT THE UNIVERSITY OF BOLOGNA. AT THE BEGINNING I CONTINUED MY WORK ON THE LUCID TEST BEAM, THEN MY ACTIVITY MOVED TO A STUDY ABOUT THE UNCERTAINTY OF THE CROSS SECTION FOR $pp \rightarrow WW$ IN FUNCTION OF PARTON DISTRIBUTION FUNCTION USING A MC TOOL. SINCE 2011 I STARTED WORKING ON MY PHD THESIS. IT IS A STUDY BASED ON THE FORWARD PHOTONS PRODUCTIONS IN pp COLLISIONS AT $\sqrt{s} = 7$ TeV WITH THE ZDC DETECTOR OF THE ATLAS EXPERIMENT. THESE RESULTS IMPROVED THE SIMULATION OF THE PROPAGATION OF ULTRA HIGH ENERGY COSMIC RAYS IN THE ATMOSPHERE. DURING 2013 I STARTED TO COLLABORATE TO THE HIGGS ANALYSIS TEAM ON THE STUDY OF THE BACKGROUND DUE TO $W + \text{JET}$ IN $H \rightarrow WW \rightarrow LNLN$.

OCT. 2013-SEP. 2015 I HAD A POST DOC CONTRACT AT THE UNIVERSITY OF ROMA 1 "LA SAPIENZA" FOR THE ATLAS EXPERIMENT. MY ACTIVITY WAS FOCUSED ON 2 TASKS: THE STUDY OF THE PRODUCTION OF A HIGGS BOSON TOGETHER WITH 2 TOP QUARKS (TTH) AND THE UPGRADE OF THE MUON TRIGGER OF THE ATLAS DETECTOR.

NOV. 2015-AUG. 2017 POST DOC CONTRACT FUNDED BY THE PRIN 2012 PROJECT "H-TEAM: TRIGGER, ADVANCED ELECTRONICS AND INNOVATIVE METHODS FOR PRECISION MEASUREMENTS IN THE HIGGS SECTOR AT LHC" AT THE INFN MILANO. MY ACTIVITY CONCENTRATED ON THE STUDY OF INNOVATIVE TRIGGER FOR PRECISION MEASUREMENT IN THE HIGGS SECTOR AT LHC AT HIGH LUMINOSITY AND PARTLY IN THE STUDY OF THE PRODUCTION OF A HIGGS BOSON TOGETHER WITH 2 TOP QUARKS (TTH).

SINCE SEP 2017 POST DOC CONTRACT FUNDED BY INFN AT INFN MILANO. THE MAIN ACTIVITY REGARDS A STUDY ON INNOVATIVE AND RADIATION-HARD SILICON PIXEL DETECTORS. IN PARTICULAR IT IS BASED ON THE CHARACTERIZATION AND THE DEVELOPMENT OF DIFFERENT PROTOTYPES FOR THE HIGH-LUMINOSITY UPGRADE OF THE ATLAS DETECTOR. IN PARALLEL, THE STUDY ON THE INNOVATIVE TRIGGER FOR PRECISION MEASUREMENT IN THE HIGGS SECTOR AT LHC AT HIGH LUMINOSITY WITH THE SAME DETECTOR IS CONTINUED AS WELL.

CONTRIBUTIONS TO CONFERENCES

- SIF 2009 CONFERENCE "PREPARATION OF A TEST BEAM FOR THE LUCID LUMINOMETER OF ATLAS", (TALK, BARI, ITALY, 28 SEPTEMBER-3 OCTOBER 2009)
- SIF 2010 CONFERENCE "RESULTS OF THE TEST BEAM OF THE MAIN ATLAS LUMINOMETER, LUCID", (TALK, BOLOGNA, ITALY, 20-24 SEPTEMBER 2010)
- IFAE 2012 CONFERENCE "THE ATLAS ZDC DETECTOR", (POSTER, FERRARA, ITALY, 11-13 APRIL 2012)
- ELASTIC AND DIFFRACTIVE SCATTERING, EDS2013 CONFERENCE, (TALK, SAARISELKA, FINLAND, 09-13 SEPTEMBER 2013)
- SIF 2014 CONFERENCE "STUDY OF THE ASSOCIATED PRODUCTION OF A HIGGS BOSON WITH A COUPLE OF TOP QUARK AND TOP ANTIQUARK (TTH), WITH H IN MULTI LEPTONS, IN THE ATLAS EXPERIMENT" (TALK, PISA, ITALY, 22-26 SEPTEMBER 2014)
- 18TH HIGH-ENERGY PHYSICS INTERNATIONAL CONFERENCE IN QUANTUM CHROMODYNAMICS, QCD15 CONFERENCE "RECENT RESULTS OF SOFT QCD WITH THE ATLAS EXPERIMENT", (TALK, MONTPELLIER, FRANCE, 29 JUNE-3 JULY 2015)
- FIRST H-TEAM WORKSHOP "TAU TRIGGER STRATEGIES FOR PHASE II", (TALK, CORTONA, ITALY, 7-8 APRIL 2016)
- INCONTRI DI FISICA DELLE ALTE ENERGIE, IFAE 2018, "RECENT DEVELOPMENTS ON HV-CMOS PIXEL SENSORS IN LFOUNDRY 150NM, AMS 180NM AND TOWERJAZZ 180NM" (TALK, MILANO, 4-6 APRIL 2018);
- AIDA-2020 THIRD ANNUAL MEETING, "UPDATE ON ACTIVITIES RELATED TO ASSEMBLY AND MEASUREMENTS OF MODULES IN MILAN" (TALK, BOLOGNA, 24-27 APRIL 2018);
- MITCHELL2018 COLLIDER, DARK MATTER AND NEUTRINO PHYSICS 2018 "TTH RELATED SEARCHES IN THE SM" (TALK, COLLEGE STATION, USA, 21-23 MAY 2018);
- PM2018 - 14TH PISA MEETING ON ADVANCED DETECTORS "CHARGE SHARING OF SINGLE PHOTONS IN FINELY SEGMENTED PIXEL DETECTORS" (POSTER, LA BIODOLA, 28 MAY-1 JUNE 2018).

LANGUAGES

- ITALIAN (NATIVE)
- ENGLISH (GOOD, WRITTEN AND SPOKEN)
- FRENCH (GOOD WRITTEN AND SPOKEN)
- SPANISH (ELEMENTARY WRITTEN AND SPOKEN)

IT SKILLS

- MICROSOFT OFFICE SUITE AND OPERATING SYSTEMS
- STRUREL (FORTRAN LANGUAGE)
- ADOBE PHOTOSHOP
- AUTOCAD 2D AND 3D
- PINNACLE
- MATHCAD
- MATHLAB
- LMS CADA-X (SOFTWARE USED FOR A LITTLE PROJECT BEFORE MY MASTER DEGREE)
- FLEXPDE
- BENTHIC (DATABASE MANAGEMENT)
- LAB FIT
- ABAQUS
- C++
- ROOT
- LATEX
- PYTHON

TEACHING ACTIVITY

- TEACHING ASSISTANT AT THE “GENERAL PHYSICS” COURSE AT THE UNIVERSITY OF BOLOGNA (ENGINEERING DEPARTMENT, APRIL-SEPTEMBER 2013)
- TEACHING ASSISTANT AT THE “LABORATORY OF MECHANICS” COURSE AT THE UNIVERSITY OF ROMA 1 “LA SAPIENZA” (PHYSICS DEPARTMENT, APRIL 2014-SEPTEMBER 2014)
- TEACHING ASSISTANT FOR THE “LABORATORY OF MECHANICS” COURSE AT THE UNIVERSITY OF ROMA 1 “LA SAPIENZA” (PHYSICS DEPARTMENT, APRIL 2015-SEPTEMBER 2015)
- TEACHING ASSISTANT FOR THE “LABORATORY OF MECHANICS WITH ELEMENTS OF STATISTICS” COURSE AT THE UNIVERSITY OF MILANO (PHYSICS DEPARTMENT, MARCH 2019-JUNE 2019)
- CO-SUPERVISOR FOR A MASTER DEGREE THESIS (A.Y. 2014-2015) WITH TITLE “STUDY OF TTH INTO 2 LEPTONS AND 1 TAU AT THE LARGE HADRON COLLIDER”
- CO-SUPERVISOR FOR A BACHELOR’S DEGREE THESIS (A.Y. 2015-2016) WITH TITLE “MULTIVARIATE ALGORITHMS FOR THE IDENTIFICATION OF TAU LEPTONS IN THE ATLAS EXPERIMENT OF HL-LHC”
- CO-SUPERVISOR FOR A BACHELOR’S DEGREE THESIS (A.Y. 2017-2018) WITH TITLE “CHARACTERIZATION OF THE MUPiX8 DETECTOR REALIZED WITH THE AMS AH18 HV-CMOS TECHNOLOGY”
- CO-SUPERVISOR FOR A BACHELOR’S DEGREE THESIS (A.Y. 2017-2018) WITH TITLE “CHARACTERIZATION OF THE ATLASPIX, A MONOLITHIC PIXEL DETECTOR IN AMS AH18 TECHNOLOGY”
- CO-SUPERVISOR FOR A BACHELOR’S DEGREE THESIS (A.Y. 2018-2019) WITH TITLE “STUDY OF THE RELIABILITY OF THE HIGH DENSITY BUMP-BONDING TECHNIQUES”

REFEREE

- I WAS SELECTED AS REFEREE FOR EVALUATING THE PROJECT FOR A RESEARCH FELLOW (2016) OF THE ROYAL SOCIETY

SCIENTIFIC ACTIVITY

- DURING THE PERIOD AT THE UNIVERSITÀ POLITECNICA DELLE MARCHE IN ANCONA, I WORKED ON (AS EXAMINATION TEST) THE ANALYSIS OF VIBRATIONS OF A MECHANISM, USEFUL FOR STUDYING THE EFFECTS OF THE SAME VIBRATIONS ON HUMAN

BODY. THEN I WORKED ON MY MASTER THESIS, BASED ON THE STUDY OF THE CORRELATION BETWEEN DIFFERENT PARAMETERS INVOLVED IN A ZINKING PROCESS.

- FROM 2006 TO 2007 I WORKED IN SNAMPROGETTI (ENI GROUP) AT FANO (PU) WHERE I PARTICIPATED TO TECHNOLOGICAL DEVELOPMENTS AND MECHANICAL DESIGN. MY ACTIVITY CONCERNED PARTLY THE FINITE ELEMENTS ANALYSIS AND THE WRITING OF 3 SNAMPROGETTI INTERNAL NOTES (IN 2 I WAS THE ONLY AUTHOR, 1 IN COLLABORATION): "TECHNICAL NOTE DESIGN PRESSURE UPGRADING VS ACTUAL LINE PIPE GEOMETRICAL AND STEEL MATERIAL PROPERTIES", "ONSHORE SECTION AT DEN HELDER EFFECT OF THE LOWEST GAS TEMPERATURE ON THE GROUND TEMPERATURE" AND "HIGH GRADE STEEL LIMIT STATE ANALYSIS"

- I OBTAINED A 2 YEAR LONG CONTRACT WITH INFN (2007-2009), WITH MAXIMUM THE FIRST YEAR AT CERN AND THE SECOND ONE IN THE INFN OF BOLOGNA. I WORKED BOTH ON TECHNICAL ASPECTS BOTH ON DATA ANALYSIS. THE SCIENTIFIC ACTIVITY WAS INVOLVED IN THE ATLAS EXPERIMENT, IN PARTICULAR ON THE DESIGN AND DEVELOPMENT OF THE ATLAS LUMINOMETER (LUCID), ORGANIZING A TEST BEAM AND ANALYZING THE RELATIVE DATA.

- SINCE JANUARY 2010 I STARTED ATTENDING THE PH.D COURSE AT THE UNIVERSITY OF BOLOGNA AND IN THE SAME TIME CONTINUING MY ACTIVITY IN THE ATLAS EXPERIMENT. THE PH.D THESIS REGARDED THE COMMISSIONING, CALIBRATION AND DATA ANALYSIS OF THE FORWARD CALORIMETER ZDC OF THE ATLAS EXPERIMENT, OBTAINING FOR THE FIRST TIME THE ENERGY DISTRIBUTION OF FORWARD PRODUCED AND VERY HIGHLY ENERGETIC PHOTONS (AT LOW POLAR ANGLES) IN COLLISIONS WITH $\sqrt{s}=7$ TeV. THESE RESULTS MAY BE USEFUL FOR A SIGNIFICANT IMPROVEMENT OF SIMULATIONS AND FOR PRECISION MEASUREMENTS REGARDING THE PROPAGATION OF VERY HIGH COSMIC RAYS IN ATMOSPHERE.

- FROM JANUARY TO SEPTEMBER 2013 I COLLABORATED TO THE STUDY ON THE BACKGROUND $W+JET$ RELATED TO THE DECAY OF THE HIGGS BOSON INTO $WW \rightarrow LNLN$ THROUGH MATRIX METHOD. THIS METHOD IS DATA DRIVEN AND IT DOES NOT DEPEND ON MC SIMULATIONS. THE MATRIX IS USED TO CORRELATE THE ESTIMATED YIELDS OF BACKGROUND WITH THE ONES MEASURED. THE MATRIX ELEMENTS ARE FUNCTION OF REAL AND FAKE LEPTONS EFFICIENCIES, WHICH ARE WRONGLY OBJECTS RECONSTRUCTED AS LEPTONS. IN PARTICULAR, I WORKED ON THE CALCULATION OF REAL EFFICIENCIES OBTAINED FROM THE RECONSTRUCTED MASS OF Z ($Z \rightarrow ee$ $Z \rightarrow \mu\mu$).

- FROM OCTOBER 2013 TO SEPTEMBER 2015, MY ACTIVITY WAS FOCUSED ON 2 TASKS: ONE DEDICATED TO THE STUDY OF THE PRODUCTION OF A HIGGS BOSON TOGETHER WITH 2 TOP QUARKS ($t\bar{t}H$), THE OTHER TO THE UPGRADE OF THE MUON TRIGGER OF THE ATLAS DETECTOR. CONCERNING THE FORMER, IT WAS PERFORMED ON THE DECAY CHANNEL $H \rightarrow t\bar{t}$, IN PARTICULAR WITH A FINAL STATE WITH 2 SAME-SIGN LEPTONS + 1 HADRONIC TAU WITH A CENTRE OF MASS ENERGY OF 8 TeV AND WITH 20.3 fb⁻¹ OF INTEGRATED LUMINOSITY. I COLLABORATED TO THE OPTIMIZATION OF THE SELECTION CRITERIA TO REJECT BACKGROUND AND TO THE RELATIVE STUDY OF SENSITIVITY. FINALLY, I ALSO WORKED ON A MULTIVARIATE ANALYSIS (TMVA) ON THE SAME CHANNEL IN ORDER TO INCREASE PRECISION AND SENSITIVITY. REGARDING THE SECOND TASK, THE FIRST LEVEL TRIGGER FOR MUONS OF ATLAS SELECTS ON-LINE MUONS PASSING FROM A COLLISION RATE OF 40 MHz TO A 20 KHz RATE OF EVENTS WITH MUON CANDIDATES TO BE FURTHER ANALYSED. IN THE "BARREL" (PSEUDORAPIDITY $|\eta| < 1$) THIS SYSTEM IS MADE OF LAYERS OF RESISTIVE PLATE CHAMBERS (RPC). DURING THE LHC SHUT-DOWN PERIOD 2013-14 NEW RPC CHAMBERS HAD BEEN INSTALLED ALONG WITH NEW ELECTRONICS TO EXTEND THE TRIGGER ACCEPTANCE COVERING NOT SENSIBLE REGIONS IN THE LOWER PART OF DETECTOR, AROUND THE SUPPORTING STRUCTURES OF ATLAS. IN PARTICULAR, I WORKED ON THE STUDY OF THE EFFICIENCIES OF THE NEW TRIGGER ALGORITHM (OBTAINED THROUGH THESE NEW CHAMBERS) AND ON THE RELATIVE OVERLAP WITH THE OLDER ONE. THIS WORK LET ME KNOW TECHNIQUES AND COMMON PROBLEMS RELATED TO TRIGGER, WHICH WILL BE EVEN MORE IMPORTANT NEXT YEARS WITH THE FORESEEN UPGRADES OF LUMINOSITY OF LHC, IN PARTICULAR DURING THE HIGH LUMINOSITY PHASE (PHASE II).

- BETWEEN NOVEMBER 2015 AND AUGUST 2017, I WORKED ON THE UPGRADE OF THE ATLAS LAR CALORIMETER FOR THE PHASE II OF LHC. THE HIGH LUMINOSITY WILL SET AN UPPER LIMIT FOR THE ON-LINE SELECTION OF EVENTS WITH DI-TAU CANDIDATES, EQUAL TO 200 KHz AT LEVEL 0 AND TO 30 KHz AT AN EVENTUAL LEVEL 1. MY ACTIVITY WAS CONCENTRATED TO THE PREPARATION OF AN ALGORITHM FOR THE LEVEL 0 TRIGGER. AT THE SAME TIME, I DID A STUDY BASED ON A MULTIVARIATE TECHNIQUE CHECKED WITH SOME KINEMATICS VARIABLES USED IN RUN II AND CONCEIVED FOR THE SELECTION OF DI-TAU EVENTS AT LEVEL 1 OF THE PHASE II. SOME OF THE SAME VARIABLES WILL BE IMPLEMENTED ON A FPGA. MOREOVER, A REDUCED PERCENTAGE OF MY ACTIVITY WAS STILL DEDICATED TO THE ASSOCIATED PRODUCTION OF THE HIGGS BOSON WITH A TOP QUARK PAIR PREVIOUSLY DESCRIBED.

- SINCE SEPTEMBER 2017, MY ACTIVITY IS BASED ON A STUDY ON INNOVATIVE AND RADIATION-HARD SILICON PIXEL DETECTORS FOR THE ATLAS EXPERIMENT. IN PARTICULAR, FOR THE SAME PHASE AT HIGH LUMINOSITY ALREADY DESCRIBED ABOVE, A REPLACEMENT OF THE ACTUAL INNER PARTICLE TRACKER OF THE ATLAS DETECTOR IS NEEDED. THE INNER PART IS MADE OF PIXEL DETECTORS AND DUE TO ITS PROXIMITY TO THE INTERACTION POINT, IT SHOULD WITHSTAND THE HIGH DOSE OF RADIATION FORESEEN FOR THE HL-LHC. THE HV-CMOS SENSORS REPRESENT A SOLID CANDIDATE AND SEVERAL PROTOTYPES ARE UNDER INVESTIGATION, WHOSE PRELIMINARY RESULTS ARE ENCOURAGING FOR THE NEXT PART OF ACTIVITY. IN PARTICULAR, THE ANALYSIS REGARDS THE PIXEL RESPONSE IN TERMS OF GAIN AND TIME LENGTH OF SIGNAL, ALONG WITH AN EFFICIENCY EVALUATION. I AM ALSO COLLABORATING TO TESTS TO DUMMY MODULES FOR SIMULATING THE SENSORS ELECTRICAL AND MECHANICAL RESPONSE TO SOLICITATIONS DURING OPERATION.

INTERESTS

- I PRACTICE AGONISTIC ATHLETICS, (BEST RESULTS OBTAINED ARE THE THIRD PLACE AT ITALIAN CHAMPIONSHIP UNDER 23 IN 2002 AND AT ITALIAN CHAMPIONSHIP IN 2013).
- MY BIG INTEREST IN TRAVELLING IS MOTIVATED BY MY WISHES IN KNOWING AND VISITING AS MUCH AS POSSIBLE. I THINK THAT IT IS A WAY TO SATISFY CURIOSITIES, TO UNDERSTAND NEW CULTURES AND I TRAVELLED IN THE WORLD WITH MY PARENTS SINCE I WAS A CHILD, SO I THINK THAT TRAVELS INFLUENCED VERY POSITIVELY MY CHARACTER FORMATION.
- I AM INTERESTED IN PAINTING. I MADE SOME PICTURES, FOR AMUSEMENT.
- I'M ATTRACTED BY ALL THINGS THAT ARE STILL TO BE DISCOVERED, TO BE DEVELOPED AND PREFERABLY CONNECTED WITH SCIENCE AND HISTORY.
- I LIKE ART, ANCIENT AND MODERN.

IN CONFORMITY WITH THE ITALIAN LAW 196/03 AND IN THE RESPECT OF MY DUTIES , I AUTHORIZE YOUR DEALING AND USING OF MY PERSONAL TRAITS SUMMARY.

IN CONFORMITY WITH THE ITALIAN LAW ARTT. 46 AND 47 OF THE D.P.R. 28/12/2000 N.445, INCLUDING FOLLOWING

Data

05/08/2019

Luogo

Castelfidardo (AN)