

**INTERNATIONALE**

| <b>Nr. Crt.</b> | <b>Anul începerii</b> | <b>Anul finalizării</b> | <b>Denumire proiect</b>  | <b>Contractor</b>   | <b>Parteneri romani</b>  | <b>Director proiect</b> | <b>Total finantare externa parteneri romani (Euro)</b> | <b>Total cofinantare nationala (Euro)</b> | <b>Domeniu</b>                                       | <b>Program</b>  |
|-----------------|-----------------------|-------------------------|--|---|--------------------------|-------------------------|--|---|--|-----------------|
| 1               | 1997                  | 2000                    | Contract Inco-Copernicus "Controlul mediului cu ajutorul tehnologiilor de senzori pentru detectia gazelor" | Universitatea Tubingen, Germania, INFM, Italia, ICFC, Belarus Avangard Microsensor Rusia Co | INCDFM                   | A.Tomescu               | 82.000   |   | 10. Physics, Condensed Matter<br>8. Physics, Applied | Inco-Copernicus |
| 2               | 1997                  | 2000                    | Inco-Copernicus Project Eastgas Detectori de gaze cu caracteristica tensiune-curent de tip dioda           | Universitatea Tubingen, Germania  | INCDFM                   | A.Tomescu               |  |   | 10. Physics, Condensed Matter<br>8. Physics, Applied | Inco-Copernicus |
| 3               | 1997                  | 2000                    | Inco-Copernicus Preparation assessment of high quality superhard materials                                 | Univ. of Antwerp, Belgia Univ. Torino, Italy E14 Dia Gas Crown, Moscow,                     | INCDFM Dacia Synth. Co., | S.Nistor                | 62.000   |   | 10. Physics, Condensed Matter<br>8. Physics, Applied | Inco-Copernicus |

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|---|------|------|---|---|--------|------------|---------|--------------|--|---------------------|
|   |      |      |   | Russia  |        |            |         |              |  |                     |
| 4 | 1998 | 2004 | Proiect NATO:<br>Program “Science<br>for Peace”,<br>(INOWATE) –<br>SfP-971979<br>Integrated<br>optoelectronic<br>circuits for infrared<br>wavelength<br>telecommunication   |   | INCDFM | L.Pintilie | 400.000 | 280.405lei   | 10. Physics,<br>Condensed<br>Matter<br>13.Physics<br>Multidisciplina<br>ry | NATO                |
| 5 | 2000 | 2004 | Contract INCO-<br>Copernicus N°<br>ICA2-CT-2000-<br>10041, GASMOH<br>Environmental<br>Control by Means<br>of a New Gas<br>Detection<br>Principle: Gas<br>Detection by<br>Means of Metal<br>Oxide<br>Heterojunctions | I.M.E/C.N.R.<br>-Lecce-Italy,<br>University<br>Tübingen-<br>Germany,<br>University<br>Brescia-Italy,<br>University<br>Minsk-<br>Belarus, A-<br>M, Sankt-<br>Petersburg,<br>Russia |        | A.Tomescu  |         | 53.308,10lei | 10. Physics,<br>Condensed<br>Matter<br>8. Physics,<br>Applied              | Inco-<br>Copernicus |

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|---|------|------|---|----------------------|--------|---------------|--|--|-------------------------------|-----|
| 6 | 2001 | 2005 | Collaboration FP 5 : UE-G5RD-CT-2001-0535 FENIKS Ferromagnetic Semiconductors and Novel Magnetic-Semiconductors for Improved Knowledge on Spintronics | Partners: France, UK | INCDFM | M.F.Lazarescu |  |  | 10. Physics, Condensed Matter | FP5 |
| 7 | 2001 | 2006 | Proiect European FENIKS (FP 6) Study on the half-metallic alloy (NiMnSb) and on chromium oxide: Characterization of the bulk and film samples         |                      |        | A.S.Manea     |  |  | 10. Physics, Condensed Matter | FP6 |
| 8 | 2001 | 2004 | European Thematic Network on Polar Electroceramics (POLECER)  |                      |        | C.Miclea      |  |  | 10. Physics, Condensed Matter |     |

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|----|------|------|--|--|--------|------------------------|---------|--|--|------|
| 9  | 2002 | 2004 | FP 5 European Project<br>CONTRACT N°<br>IST-2000-28495<br>INVEST/INVEST-<br>EAST Integration<br>of very high-k<br>dielectrics with<br>silicon CMOS<br>technology   |  |        | L.Pintilie             |         |  | 10. Physics,<br>Condensed<br>Matter<br>8. Physics,<br>Applied                | FP5  |
| 10 | 2002 | 2010 | <a href="http://rd50.web.cern.ch/rd50/">CERN -RD50</a><br><a href="#">(Partners:48</a><br><a href="#">research</a><br><a href="#">institutions;27</a><br><a href="#">countries from</a><br><a href="#">Europe, USA,</a><br><a href="#">Canada</a><br><a href="http://rd50.web.cern.ch/rd50/">(http://rd50.web.cern.ch/rd50/))</a><br>Radiation hard<br>semiconductor<br>devices for very<br>high luminosity<br>colliders |  |        | I.Pintilie<br>S.Lazanu |         |  | 10. Physics,<br>Condensed<br>Matter<br>15. Physics,<br>Particles &<br>Fields | CERN |
| 11 | 2005 | 2010 | Network of<br>Excellence FP 6<br>Molecular<br>Approach to<br>Nanomagnets and   |  | INCDFM | G.Filoti               | 145.000 |  | 10. Physics,<br>Condensed<br>Matter<br>5. Nanoscience<br>&                   | FP6  |

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|    |      |      | Multifunctional Materials(MAGM ANet) NMP-3-CT-2005-515767   |   |        |          |           |              | Nanotechnology   |     |
| 12 | 2005 | 2008 | FP6 Project NIMP2-CT-2004-505834-1 CONCORDE (CA Co-ordination of nanostructured catalytic oxides research and development in Europe | Coordinator: Consejo Superior de Investigaciones Cientificas (ICPCSIC), Spain |        | L.Frunza | 16000 EU  | 54.941,50lei | 10. Physics, Condensed Matter<br>5. Nanoscience & Nanotechnology | FP6 |
| 13 | 2007 | 2011 | Marie Curie Excellence Grant  |   |        |          |           |              |  |     |
|    |      |      | Self-assembling nanotechnology of pinning centres in superconducting films, devices and coated conductors MEXT-06-041111            | Univ.of Birmingham  | INCDFM | A.Crisan | 1.600.000 |              | 10. Physics, Condensed Matter<br>5. Nanoscience & Nanotechnology | FP7 |

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| 14. | 2008 | 2010 | Alexander von Humboldt Fellowship Univ. Mainz, Germany AvH ID No: RUM1126111STP, Grant No. 3-1126112<br>$\text{Li}_2(\text{Pd}_{1-x}\text{Pt}_x)_3\text{B}$ and related superconductors |   |        | P.Badica    | 100.000 |  | 10. Physics, Condensed Matter                                    | Humboldt |
| 15  | 2008 | 2012 | FP7 European Project Marie Curie Training Network on Particle Detectors (MC-PAD)<br>No.: 214560-2   | Partners: CERN, DESY, GSI,etc             | INCDFM | I.Pintilie  |         |  | 10. Physics, Condensed Matter<br>15. Physics, Particles & Fields | FP7      |
| 16  | 2009 | 2011 | SCOPES (Switzerland)<br>Functional Nanowires  |   |        | I.Enculescu |         |  | 10. Physics, Condensed Matter<br>5. Nanoscience & Nanotechnology | SCOPES   |
| 17  | 2010 | 2012 | FP7 European Project  | Radboud University Nijmegen (Netherlands) | INCDFM | L.Pintilie  |         |  | 10. Physics, Condensed Matter                                    | FP7      |

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|    |      |      | Large-scale integrating project<br>Interfacing Oxides<br>(IFOX)NMP-2009-2.2-1  |  |  |              |       |  |   |  |
| 18 | 2007 | 2009 | International cooperation programme with JINR-Dubna (Russia)<br>359/01.06.2007<br>Theme No 05-2-1040-2001/2009<br>Comparative investigations of magnetic colloid systems by means of muon and Mossbauer spectroscopy |  |  | V.Kuncser    | 8.000 |  | 10. Physics, Condensed Matter<br>20. Chemistry, Physical 16. Spectroscopy |  |
| 19 | 2008 | 2009 | Synchrotron-radiation facility HASYLAB (Hamburger Synchrotronstrahlungslabor) at DESY (Deutsches Elektronen-Synchrotron), Hamburg,   |  |  | C.Teodorescu | 10000 |  | 10. Physics, Condensed Matter<br>5. Nanoscience & Nanotechnology          |  |

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|    |      |      | Germany<br>Project code: II-20052058<br>Titanium dioxide based nanomaterials and nanostructured films with applications in the photocatalytic degradation of environmental polluting organic contaminant |  |  |              |       |  |                               |
| 20 | 2007 | 2010 | Synchrotron-radiation facility HASYLAB (Hamburger Synchrotron-strahlungslabor) at DESY (Deutsches Elektronen-Synchrotron), Hamburg, Germany<br>Project code: II-20070135EC<br>X-ray absorption           |  |  | C.Teodorescu | 10000 |  | 10. Physics, Condensed Matter |

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|    |      |      | fine structure studies of Diluted Magnetic Semiconductors formed by doping ZnO and TiO2 with transition metals: Cr, Mn, Fe, Co, Ni |  |  |            |       |  |  |      |
| 21 | 2005 | 2009 | ESF COST action P16 ECOM Emergent behavior in correlated matter  |  |  | A.Galatanu | 1.500 |  | 10. Physics, Condensed Matter  | COST |
| 22 |      |      | COST Action P-15 Advanced paramagnetic resonance methods in molecular biophysics2005-2009  |  |  | S.Nistor   |       |  | 10. Physics, Condensed Matter 2. Biophysics                            | COST |
| 23 | 2005 | 2010 | COST Action 540 Photocatalytic technologies and novel nanosurfaces materials -critical issues (PHONASUM)                           |  |  | F.Vasiliu  | 1500  |  | 10. Physics, Condensed Matter 31. Materials Science, Multidisciplinary | COST |

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|----|------|------|---|--|--------|---------------|--|-------------|---|--------------|
| 24 | 2009 | 2013 | ERASMUS<br>Surface properties<br>of iron oxide nano-<br>particles for<br>biomedical<br>applications       |  |        | D.Predoi      |  |             | 10. Physics,<br>Condensed<br>Matter 5.<br>Nanoscience &<br>Nanotechnolog<br>y 26. Materials<br>Science,<br>Biomaterials | EURAMUS      |
| 25 | 2009 | 2013 | ERASMUS<br>Biogeochemistry of<br>iron in surface<br>environments  |  |        | D.Predoi      |  |             | 23.<br>Geochemistry<br>& Geophysics<br>10. Physics,<br>Condensed<br>Matter  | EURAMUS      |
| 26 |      |      | Brancusi Romania<br>France Project  |  |        | A.Stanculescu |  |             | 10. Physics,<br>Condensed<br>Matter<br>8. Physics,<br>Applied   | BRANCUS<br>I |
| 27 | 2006 | 2008 | CORINT :<br>Abordarea la scara<br>moleculara a<br>nanomagnetilor si<br>materialelor<br>multifunctionale . |  | INCDFM | G.Filoti      |  | 818.040 lei |   |              |