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May 14, 2012

Consorzio RFX  
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**To:** Dr. Francesco Romanelli, Dr. Duarte Borba, Dr. George Sips and Dr. Sandor Zoletnik  
**Job Title:** Deputy TF1 Task Force Leader

To Whom It May Concern,

my name is Nicola Vianello, I am a 36 years old Phd Physicist Scientist, currently working at the RFX-mod experiment. I would like to apply for the position of deputy TF1 Task Force Leader for 2013.

I've been involved in Fusion plasma Science since my M.Sci. Thesis in Physics in 1999. My primary research interest is transport phenomena in fusion-oriented plasmas with strong emphasis on non-linear dynamics. I have addressed the problem both experimentally, through the collection, analysis, interpretation and modeling of experimental data, and numerically, through the use of massive parallel fluid codes and comparing the numerical results with experimental observations.

I've a strong interest towards data analysis and evaluation with a particular emphasis on the comparison with theories and codes which provide the suitable framework for the correct interpretation of real data. I've been involved in the interpretation of a variety of phenomena, ranging from electrostatic turbulence particle transport, sheared flow turbulence generation, non-linearly generated turbulent structures, interplay between 3D magnetic perturbation and plasma transport phenomena. Each of these topics has required the development of a solid theoretical background, and the adaptation of theories to the studied framework.

I've been actively involved in the coordination of experimental campaigns in RFX-mod experiment, as task force leader during 2009 and 2010, taking part to the decision processes concerning the experimental program of the machine, defining priorities and objectives. This role has allowed me to develop good capabilities in the planning of experimental campaigns matching the scientific objectives to the effective status of a machine including wall conditioning and plant status. In 2011 I've also been appointed coordinator of the EFDA working group *3D field effects in edge and SOL and diagnostic development* under EFDA Transport Topical Group. Among my duties I had to coordinate the activities of different european laboratories, stimulating discussions and defining common objectives.

I believe these experiences provide me with good management and coordination capabilities also in an international environment.

My international experience is very good, with vital and active collaborations with different european and international laboratories, including collaboration with stellarator and tokamaks community.

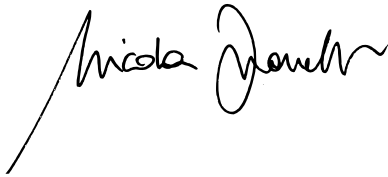
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I think that during my research career I have proved my strong research autonomy accompanied by good capability to work in small and large groups.

All these qualities and competences fit well with the requirements for the position. Finally I would be eager to have the possibility to work in such an exciting environment as JET.  
Thank you for your consideration.

Sincerely,

A handwritten signature in black ink, appearing to read 'Nicola Vianello', with a long, sweeping horizontal line extending to the left.

Nicola Vianello

Encl: Curriculum Vitae