

ESF Network – PLASMON-BIONANOSENSE
Dr. Vincenzo Giannini
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Department of Physics
Imperial College London
Prince Consort Rd
London SW7 2AZ

Expense claim for short visit grant #4367

Dear Sir, dear Madam,

Please find attached below the scientific report for the short visit to Prof. Aizpurua's group in San Sebastian (Spain). The travel receipts will be found in the documents sent by mail.

The present claim includes the following items:

Description	Unit price	Currency	Number	total (€)
Flight London <-> Bilbao Airport	290	EUR	1	290.00
Bus Bilbao Airport <-> San Sebastian	15.7	EUR	2	31.40
Taxi San Sebastian	6.79	EUR	0.5	3.40
Single bus tickets San Sebastian	1.4	EUR	4	5.60
			Total	330.4

Scientific report – short visit Vincenzo Giannini in Javier Aizpurua's group

The short visit took place between the 4th and 8th August 2011 in San Sebastian (Spain), at the Center of Materials Physics in San Sebastian (Spain), in order to visit the group of Prof. Aizpurua.

During the visit I had the opportunity of to discuss with Prof. Aizpurua as well as with members of his group. The main argument was when the Fano description in plasmonic resonances it is not more accurate and how push the limit of plasmonic sensor using Fano interferences. Also we discussed if FDTD calculations are a good options when the resonances are particularly sharp.

This visit aimed also set up also a possible collaborations due to the complementary skills in the calculations of Fano resonances in plasmonic nanostructures.