



BLEMAB

BLast furnace stack density Estimation through online Muons ABSorption measurements

Tipologia Progetto:	EU
Bando:	RFCS-2019
Grant Agreement:	899263
Codice Unico Progetto:	
Coordinatore:	RINA CONSULTING - CENTRO SVILUPPO MATERIALI SPA (CSM)
Responsabile INFN:	Lorenzo Bonechi (FI)
Sezioni Partecipanti:	FI, PD, NA
Linked Third Party:	UNIFI, UNINA
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EU Contribution:	520.806,00 €
Sito web:	

Descrizione: On the basis of the successful achievements obtained in the former MUBLAST project (RFSR-CT-2014-00027), BLEMAB project objective is to on-line demonstrate, at an industrial blast furnace (BF) plant, the imaging capability of a muons absorption technique to investigate the inner zone of the blast furnace stack.
A new muon detector will be manufactured and then installed at the industrial blast furnace plant. The new detector measurements will be compared with measurements obtained through an enhanced multipoint probe and standard blast furnace models. We expect that the technique

will make an essential contribution to the new on-line blast furnace process control by providing information concerning both the density of the burden material at various BF heights, and the position and shape of the cohesive zone.