

**EXPERIMENT TECHNOLOGY DEVELOPMENT AND APPLIED RESEARCH
WITH SLOW MONOCHROMATIC POSITRON BEAMS**

THE SYMBOL OF THE PROJECT PROJECT PAS

DLNP, JINR: E. V. Ahmanova, M. K. Eseev¹, V. I. Hilinov, P. Horodek², A. G. Kobets³, I. N. Meshkov, O. S. Orlov, A. Yu. Rudakov, K. Siemek², A. A. Sidorin, L. V. Soboleva, T. A. Stepanova, S. L. Yakovenko

¹**Northern (Arctic) Federal University named after M.V. Lomonosov, Arkhangelsk, Federal State Budgetary Institutions of Science Federal Research Center of Complex Study of the Arctic named after N. P. Laverov of the Russian Academy of Sciences, Arkhangelsk.**

²**Institute of Nuclear Physics Polish Academy of Sciences, Krakow, Poland**

³**Institute of Electrophysics and Radiation Technologies NAS of Ukraine, Kharkov, Ukraine**

VBLHEP, JINR: V. M. Drobin, V. V. Seleznev

ITEP SIC "Kurchatov Institute": E. P. Prokopiev

The INP BSU, Minsk, Belarus: A. Ya. Silenko

University of Wales Swansea (UK): M.Charlton

PROJECT SUPERVISORS A. G. Kobets, P. Horodek

SCIENTIFIC PROJECT SUPERVISOR I. N. Meshkov

THE DATE OF SUBMISSION OF DRAFT TO THE SOD

DATE OF LABORATORY SC 13.04.2017

**DATE OF SUBMISSION OF THE PHYSICAL JUSTIFICATION AT THE
LABORATORY SEMINAR 11.01.2017**

PROJECT APPROVALS SHEET

**EXPERIMENT TECHNOLOGY DEVELOPMENT AND APPLIED RESEARCH
WITH SLOW MONOCHROMATIC POSITRON BEAMS**

THE SYMBOL OF THE PROJECT PROJECT PAS

PROJECT SUPERVISORS A. G. Kobets, P. Horodek

SCIENTIFIC PROJECT SUPERVISOR I. N. Meshkov

APPROVED BY THE JINR DIRECTOR	_____	« ____ » _____	20 y.
	(Signature)		(Date)
AGREED: JINR VICE-DIRECTOR	_____	« ____ » _____	20 y.
MAJOR SCIENTIFIC SECRETARY	_____	« ____ » _____	20 y.
MAJOR JINR ENGINEER	_____	« ____ » _____	20 y.
HEAD SOD	_____	« ____ » _____	20 y.
LABORATORY DIRECTOR	_____	« ____ » _____	20 y.
MAJOR LABORATORY ENGINEER	_____	« ____ » _____	20 y.
PROJECT SUPERVISORS	_____	« ____ » _____	20 y.
	_____	« ____ » _____	20 y.
SCIENTIFIC PROJECT SUPERVISOR	_____	« ____ » _____	20 y.
APPROVED PAC OF SPHERE	_____	« ____ » _____	20 y.

Proposed schedule and necessary resources for the implementation of the project

EXPERIMENT TECHNOLOGY DEVELOPMENT AND APPLIED RESEARCH

WITH SLOW MONOCHROMATIC POSITRON BEAMS

Name of costs, resources, sources of funding		The cost of installation units (thous.\$)	Offers for laboratory for the distribution of funding and resources			
			1 year 2018	2 year 2019	3 year 2020	
Costs	1. Vacuum equipment	23,0	17	6	38,5	
	2. Beam diagnostic instrument	70,5	12	20		
	3. High-voltage equipment	10,0		10		
	4. RF equipment	12,0	6	6		
The necessary resources	Standard hours	EP JINR: mechanical works electronics CB OOEP LNP				
Operating costs						
Sources of financing	Budget	The spending from the budget	115,5	35,0	42,0	38,5
	Extrabudgetary	Contracts: Grants:				

PROJECT SUPERVISORS

A. G. Kobets

P.

Horodek

SCIENTIFIC PROJECT SUPERVISOR I.

I. N. Meshkov

Estimated cost of the Project
EXPERIMENT TECHNOLOGY DEVELOPMENT AND APPLIED RESEARCH
WITH SLOW MONOCHROMATIC POSITRON BEAMS

№	Name of the items cost	Full cost	1 year 2018	2 year 2019	3 year 2020
Direct costs for the Project					
1	Computer connection				
2	CB				
3	OOEP	Standart hours			
4	Materials	15000	5000	5000	5000
5	Equipment	115500	35000	42000	38500
6	Payment for NIR carried out under contracts				
7	Business trips expenses, including				
	a) in the country's non ruble zone	30000	10000	10000	10000
	b) in the city of the ruble zone	24000	8000	8000	8000
	c) protocols	3000	2000	2000	2000
Total direct costs:		190500	60000	67000	63500

Project Supervisors

A. G. Kobets

P.

Horodek

Scientific Project Supervisor

I. N. Meshkov

Laboratory Director
Bednyakov

V. A.

Laboratory Director Assistant Of The
Economic And Financial Affairs

G.A Usova