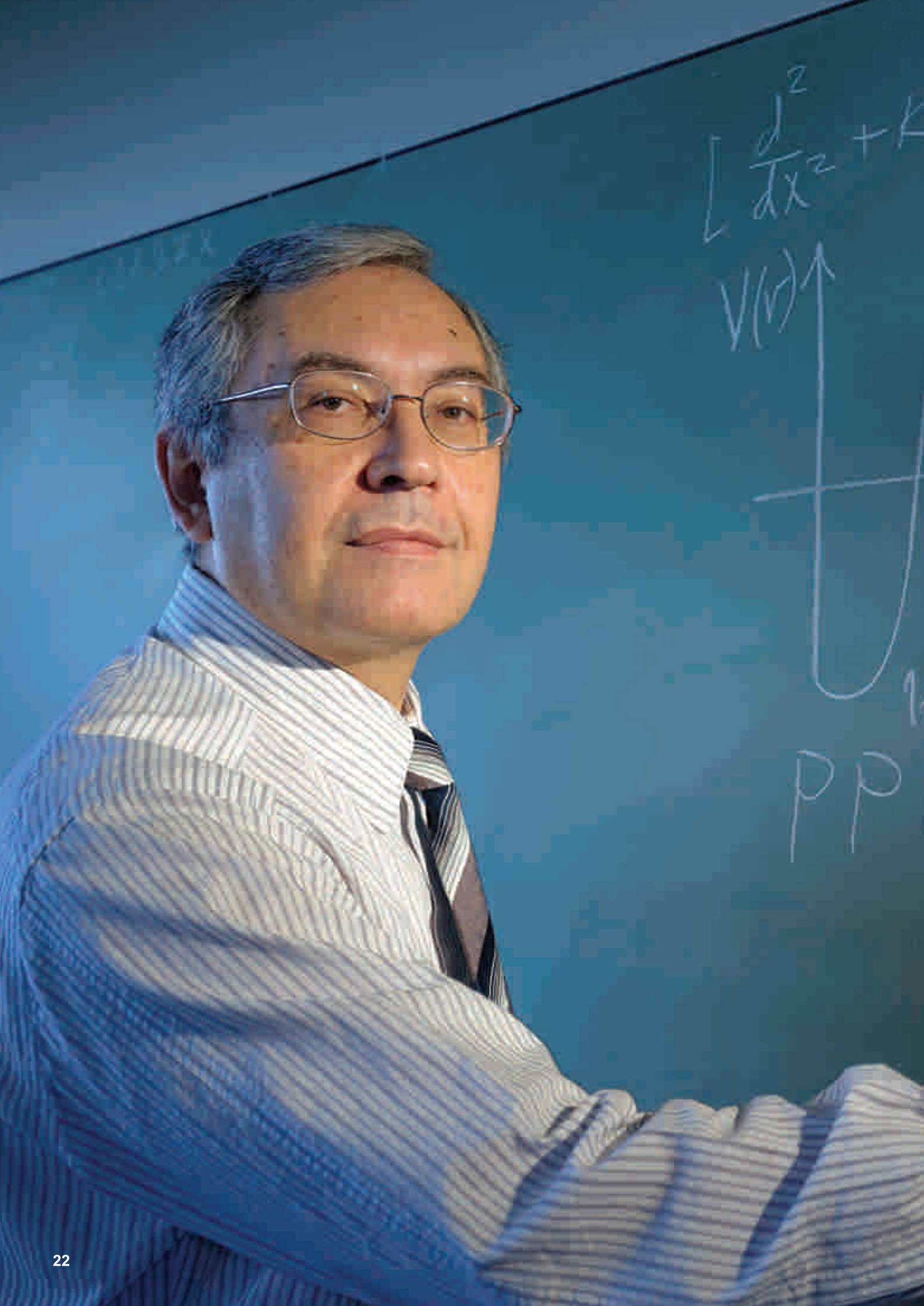

Prof Sergei Rakitianski

Prof Rakitianski het sy opvoeding in Rusland ontvang. Hy was bykans 20 jaar lank verbonde aan die Gemeenskaplike Instituut vir Kernnavorsing (Joint Institute for Nuclear Research – JINR) in Doebna, Rusland, waar hy verskeie navorsingsposisies beklee het. In 1997 immigreer hy na Suid-Afrika en tot 2008 is hy verbonde aan die Universiteit van Suid-Afrika (Unisa) as Dosent in Fisika en navorser. Hy is met Unisa se Kanselierstoekenning bekroon vir die navorsing wat hy in daardie tyd gedoen het en vir sy aktiewe betrokkenheid by die vestiging van 'n navorsingsooreenkoms tussen die Suid-Afrikaanse regering en die JINR. In 2009 word prof Rakitianski aangestel as Professor in die Departement Fisika aan die Universiteit van Pretoria.

Prof Rakitianski spits hom toe op navorsing op die gebied van die teorie van kwantumresonansies met toepassings in kern-, molekulêre en nanostruktuurfisika sowel as in kern-astrofisika. Hy werk saam met kollegas by die universiteite van Stockholm en Bonn en die JINR. Hy het ongeveer 80 navorsingsverslae die lig laat sien. Onder sy leiding as studieleier of promotor het 11 MSc- en PhD-studente hul studies suksesvol voltooi. Prof Rakitianski beskik oor 'n B3-gradering van die NNS en word dikwels betrek by die evaluering van navorsingsprojekte wat aan die NNS voorgelê word. Hy beoordeel dikwels artikels wat aan leidende internasionale vaktydskrifte voorgelê word, onder andere die *Journal of Physics, Physical Review, Nuclear Physics* en vele ander. Hy dien op die redaksie van die vaktydskrif *Current Physical Chemistry.*

Prof Rakitianski beskou self 'n nuwe metode om kwantumresonansieverskynsels te beskryf as sy vernaamste prestasie tot op hede. Hy het dié metode voorgestel en dit oor die afgelope dekade verfyn en etlike referate daaroor gepubliseer.

Prof Rakitianski was educated in Russia. He worked for almost 20 years at the Joint Institute for Nuclear Research (JINR) in Dubna, Russia, where he held various research positions. He immigrated to South Africa in 1997 and taught physics and did research at the University of South Africa (Unisa) until 2008. His research work of that period and active involvement in the setting up a research agreement between the South African government and the JINR were recognised by the Unisa Chancellor's Award. In 2009 Prof Rakitianski was appointed as a Professor in the Department of Physics of the University of Pretoria.

Prof Rakitianski's research activities are in the field of the theory of quantum resonances with applications in nuclear, molecular and nano-structure physics as well as in nuclear astrophysics. He collaborates with colleagues from Stockholm University, Bonn University, and the JINR. He has written about 80 research papers and has supervised 11 MSc- and PhD-students to the completion of their degrees. Prof Rakitianski has a B3-rating from the NRF and frequently evaluates research projects submitted to the NRF. He regularly reviews papers for leading international journals, such as *Journal of Physics, Physical Review, Nuclear Physics*, and others. He is a member of the editorial board of the journal *Current Physical Chemistry*.

Prof Rakitianski considers as his most significant achievement to date, a new method for describing quantum resonance phenomena. He suggested this method and has developed it during the last decade and has published a number of papers on it.

Prof Rakitianski o belegwe a ba a ithuta go la Russia. O šomile mengwaga yeo e ka lekanago 20 ka Institšhuting ya Kopanelo ya Dinyakišišo tša Nuclea (JINR) go la Dubna, Russia moo a bego a swere maemo ao a fapafapanego a dinyakišišo. O falaletše ka Afrika-Borwa ka ngwaga wa 1997 gomme a ruta fisika le go dira diyakišišo University of South Africa (Unisa) go fihla ka 2008. Mošomo wa gagwe wa paka yeo le go tšea karolo ka mafolofolo ka go hlameng tumelelano ya dinyakišišo magareng ga mmušo wa Afrika-Borwa le JINR o ile wa lemogwa ke Unisa ka go mo fa Sefoka sa Mokhanseliri. Ka 2009 Prof Rakitianski o ile a thwalwa bjalo ka profesa go Kgoro ya Fisika ya University of Pretoria.

Mešomo ya dinyakišiso ya Prof Rakitianski e ka lefapheng la teori ya dikgalagadišo tša makala a nnyanennyane (a khwanthamo) ka ditirišo ka go nyuklea, fisika ya dimolekhule le tlhamego-ya-nano le ka go fisika ya boratadima bja nyuklea. O šomišana le bašomikayena go tšwa University of Stockholm, University of Bonn, le JINR. O ngwadile dipampiri tšeo di ka bago 80 gomme o okametše baithuti ba 11 ba mangwalo a MSc le PhD go fihlela ba fetša ditikrii tša bona. Prof Rakitianski o ka maemong a B3 go tšwa go NRF gomme makga a mantši o lekanyetša diprotšeke tša dinyakišišo tšeo di tlišwago go NRF. Ka mehla o sekaseka dipampiri tša ditšenale tša diketapele bjalo ka *Journal of Physics, Physical Review, Nuclear Physics* le tše dingwe. Ke leloko la boto ya borulaganyi bja tšenale ya *Current Physical Chemistry*.

Prof Rakitianski o eleletša go ba seo e lego phihlelelo ya gagwe ye bohlokwahlokwa, mokgwa o mofsa wa go laodiša diponagalo tša dikgalagadišo tša makala a manyanenyane (a khwanthamo). O akantše mokgwa wo ebile o o hlabolotše ngwagašomeng wo o fetilego gomme o phatlaladitše dipampiri tša go bonagala ka ga wona.