

STELLENBOSCH UNIVERSITY

About	3
The number theory conference	3
Organizing committee	3
Timetable	4
Monday, 20 of January 2025	4
Tuesday, 21 of January 2025	5
Wednesday, 22 of January 2025	6
Thursday, 23 of January 2025	7
Friday, 24 of January 2025	8
List of Abstracts – Talks	9
Monday, 20 of January 2025	9
Tuesday, 21 of January 2025	13
Wednesday, 22 of January 2025	16
Thursday, 23 of January 2025	18
Friday, 24 of January 2025	20
List of Participants	22
Sponsors	25

About

The number theory conference

The Stellenbosch Number Theory Conference, held every two years, serves as a platform to bring international experts to South Africa, fostering collaboration and enhancing both research and postgraduate experiences. The conference broadly focuses on number theory and arithmetic geometry, without being confined to a single specialized area. Topics covered often span a wide range, including elliptic curves, modular forms, function field arithmetic, rational points on varieties, model-theoretic approaches, and more, reflecting the diversity and richness of the field.

Organizing committee

Dirk Basson, Stellenbosch University
Naina Ralaivaosaona, Stellenbosch University
Sophie Marques, Stellenbosch University
Florian Luca, Stellenbosch University

Fabien Pazuki, University of Copenhagen, Denmark

Talks will take place in Room 1005 of the Department of Mathematical Sciences and Industrial Psychology at Stellenbosch University, located directly opposite the main entrance (refer to the map on p.24 if needed).

Coffee breaks will be provided in the staff room of the Department of Mathematical Sciences.

Eduroam Wi-Fi will be available throughout the conference.

The **conference dinner**, offered to the conference speakers, will be held at Alluvia Restaurant.

Monday, 20 of January 2025

9:00-9:20	Registration			
9 :20-9 :30	Welcome remarks			
9 :30-10 :30	Tim Browning IST Austria Pairs of commuting matrices			
10 :30-11 :00	Coffee			
11 :00-11 :40	Laszlo Szalay University of Sopron, Self-avoiding walks Hungary			
11 :40-12 :20	Attila Berczes University of Debreceni, Hungary Some Diophantine problems connected to binary recurrence	es		
12 :20-14 :00	Lunch			
14 :00-14 :40	University of Debreceni, Hungary On the Diophantine equation $F_n^x + F_k^x = F_m^y$			
14 :40-15 :20	Matteo Verzobio Sieve methods for strong divisibil IST Austria sequences	ity		
15 :20-16 :00	Coffee			
16 :00-17 :00	Bruno R. Chiarellotto University of Padova, Italy University of Padova, Italy Location : Nelsie Cinema	е		
17 :00-18 :00	Refreshments			

Tuesday, 21 of January 2025

9 :30-10 :30	Lajos Hajdu University of Debreceni, Hungary	Representing integers by binary recurrence sequences	
10 :30-11 :00	Coffee		
11 :00-11 :40	Daniella Moore Stellenbosch University, South Africa	Distributive decomposition of near-vector spaces	
11 :40-12 :20	Taboka Prince Chalebgwa University of Pretoria, South Africa	Liouville meets Erdos	
12 :20-14 :00	Lunch		
14 :00-14 :40	Liam Baker Stellenbosch University, South Africa	Axiomatic Summation and Limiting methods	
14 :40-15 :20	Federico Bambozzi Universita degli Studi di Padova, Italy	Derived non-Archimedean analytic geometry	
15 :20-15 :50	Coffee		
15 :50-16 :30	Kevin Destagnol Paris-Saclay University, Orsay, France	The quadratic Manin-Peyre conjecture for del Pezzo surfaces	

Wednesday, 22 of January 2025

9 :30-10 :30	Florian Breuer University of Newcastle, Australia	Coefficients of modular polynomials	
10 :30-11 :00	Coffee		
11 :00-12 :00	Richard Griffon Universite Clermont Auvergne, France	A parallelogram inequality for abelian varieties over function fields	
12 :00-12 :40	Dennis Kinoti Gikunda Stellenbosch University, South Africa	The Asymptotic Analysis of Norms in Integer Partitions	
12 :40-14 :00	Lunch		
14 :00-17 :00	Free afternoon		

Thursday, 23 of January 2025

9 :30-10 :30	Δarhiic I Iniversity	on of sequences of $m\left(q_{n}y\right)$		
10 :30-11 :00	Coffee			
11 :00-11 :40	Bruno Chiarellotto Universita degli Studi di Families o Padova, Italy	f Varieties		
11 :40-12 :10	Stephane Vinatier University of Limoges, Alignments in France	Alignments in Ulam's Spiral		
12:10-14:00	Lunch			
14:00-14:40	Stellenbosch University, set of integers mo	e structure of the odulo a power of a me.		
14 :40-15 :20		of overpartitions es of two integers		
15 :20-15 :40	Coffee			
15 :40-16 :20	Stellenhosch University	ch are ratios of onacci numbers		
18 :00-21 :00	Conference dinner			

Friday, 24 of January 2025

9 :30-10 :30		Augustine Munagi University of the Witswatersrand, South Africa	Refining Overlined Parts in Overpartitions via Residue Classes	
10 :30-11 :10		Alexis Lucas Universite de Caen Normandie, France	Wieferich primes and Drinfeld modules	
11 :10-11 :30		Coffee		
11 :30-12 :10		Henry (Maya) Thackeray University of Pretoria, South Africa	The exponential local-global principle and power residue symbols	
12 :10-12 :50		Darlison Nyirenda University of the Witswatersrand, South Africa	Partitions with parity restrictions on parts	
12 :50-14 :00		Lunch		
14 :00-17 :00	Free afternoon			

List of Abstracts - Talks

Monday, 20 of January 2025

9:30-10:30

Pairs of commuting matrices

Tim Browning

IST Austria

I'll discuss commuting varieties and a new upper bound for the number of pairs of commuting $n \times n$ matrices with integer entries and height at most T, as T tends to ∞ . The approach uses Fourier analysis and mod p information. This is joint work with Will Sawin and Victor Wang.

11:00-11:40

Self-avoiding walks

Laszlo Szalay

University of Sopron, Hungary

There is given a connected graph. A self-avoiding walk on the graph is a walk never visits the same vertex more than once. One of the central problems in this area is to consider the number of distinct self-avoiding walks of a prescribed length starting at the origin on the integer lattice \mathbb{Z}^d .

This problem seems to be very intactable in general. We investigated some specific cases, and discovered interesting properties related to the enumerative statements.

The results are joint work with H. Belbachir, L. Major, L. Németh, and A. Pahikkala.

11:40-12:20

Some Diophantine problems connected to binary recurrences

Attila Berczes

University of Debreceni, Hungary

Binary recurrence sequences are in the focus of research for a long time. In the frame of Diophantine number theory researchers were investigating divisibility properties of members of recurrence sequences and many more Diophantine properties of them. However, there are several Diophantine problems and Diophantine equations which are not directly connected to recurrences, but linear recurrences (and theorems proved about them) appear as tools in the solution of these problems.

In my talk I will present some results on Diophantine equations and problems containing linear recurrence sequences, and also some diophantine results, where the linear recurrences appear only in the proof of the results.

14:00-14:40

On the Diophantine equation ${\cal F}_n^x + {\cal F}_k^x = {\cal F}_m^y$

István Pink

University of Debreceni, Hungary

It is conjectured that the Diophantine equation

$$a^x + b^y = c^z (0.1)$$

has only finitely many positive integer solutions (a^x,b^y,c^z) with $\gcd(a,b,c)=1$ and for which 1/x+1/y+1/z<1. For fixed x,y,z subject to the above condition this is a well-known result of Darmon and Granville [1]. While this result is only of theoretical importance, there are definitive results in the case when $x=y=z\geq 3$ (see the famous result of Wiles [7]) or in the case when x=y and $z\in\{2,3\}$ (see the results of Darmon and Merel [2] and Poonen [6]). In this talk we solve completely equation (0.1) in the case x=y except that we assume that all bases are Fibonacci numbers, that is we find all solutions of the Diophantine equation $F_n^x+F_k^x=F_m^y$, where $\{F_n\}_{n\geq 0}$ is the Fibonacci sequence. This way we extend some earlier results of Marques and Togbé [5], Luca and Oyono [4] and Hirata-Kohno and Luca [3]. This is a joint work with A. Bérczes, L. Hajdu and F. Luca.

References

- [1] H. Darmon and A. Granville On the equations $z^m = F(x, y)$ and $Ax^p + By^q = Cz^r$. Bull. London Math. Soc. **27** (1995), 513–543.
- [2] H. Darmon and L. Merel Winding quotients and some variants of Fermat's last theorem, J. Reine Angew. Math. **490** (1997) 81–100.
- [3] N. Hirata-Kohno and F. Luca, On the Diophantine equation $F_n^x + F_{n+1}^x = F_m^y$. Rocky Mountain J. Math. **45**/2 (2015), 509–538.
- [4] F. Luca and R. Oyono, An exponential Diophantine equation related to powers of two consecutive Fibonacci numbers. Proc. Japan Acad. Ser. A Math. Sci. **87** (2011), 45–50.
- [5] D. Marques and A. Togbé, On the sum of powers of two consecutive Fibonacci numbers. Proc. Japan Acad. Ser. A Math. Sci. **86** (2010), 174–176.
- [6] B. Poonen, Some Diophantine equations of the form $x^n + y^n = z^m$, Acta Arith. 86 (1998), 193–205.
- [7] A. Wiles, Modular elliptic curves and Fermat's last theorem. Ann. of Math. (2) 141 (1995), no. 3, 443–551

14:40-15:20

Sieve methods for strong divisibility sequences

Matteo Verzobio

IST Austria

In this talk, we will investigate strong divisibility sequences and produce lower and upper bounds for the density of integers in the sequence which only have (somewhat) large prime factors. We will focus in particular on the special cases of Fibonacci numbers and elliptic divisibility sequences. This is a joint work with Tim Browning.

16:00-17:00

Alexander Grothendieck and the modern algebraic arithmetic geometry

Bruno R. Chiarellotto

University of Padova, Italy

Starting from the life of Alexander Grothendieck, a giant among the mathematicians of the 20th century (life full of interesting steps in itself), we will try to introduce the audience to his new way of thinking geometry via algebra and number theory as a motive played by different instruments.

Tuesday, 21 of January 2025

9:30-10:30

Representing integers by binary recurrence sequences

Lajos Hajdu

University of Debrecen, Hungary

In the talk we present various new results concerning binary recurrence sequences.

First, we discuss estimates concerning the growth of such sequences and indices of zero terms in such sequences. Certainly, such results are well-known from the literature. However, our bounds depend on fewer parameters of the sequences than the earlier bounds, and we show that the dependence on these parameters is already necessary.

Then, restricting our attention to Lucas sequences U_n , we give lowerand upper bounds for the cardinalities of the sets

$$\{x \in \mathbb{Z} : 0 \le x \le N \text{ and } x = |U_n| \text{ for some Lucas sequence } U\}.$$

The lower and upper bounds are rather sharp, they are of the same magnitude. In the proofs we combine several tools, including elementary arguments, Baker's method, extensions of theorems of Erdős and Mahler, and Lewis and Mahler concerning representability of integers by binary forms G(x,y) to representations of the type $G(x^2,y)=k$, and certain properties of the Fibonacci polynomials.

The new results presented are joint with R. Tijdeman.

11:00-11:40

Distributive decomposition of near-vector spaces

Daniella Moore

Stellenbosch University, South Africa

André proved that any near-vector space can be decomposed as a direct sum of regular near-vector spaces. In this talk, we will show how each regular near-vector space can, in turn, be decomposed into vector spaces over the field of distributive elements of a specific near-field. We will demonstrate that this new decomposition is foundational to the theory of near-vector spaces by establishing that the dimension of each summand in this direct sum, taken over the distributive field, matches the dimension of the corresponding regular near-vector space summand. This is a joint work with Leandro Boonzaaier and Sophie Marques.

References

[1] Boonzaaier, L, Marques, S and Moore, D, Distributive decomposition of near-vector spaces, Journal of Algebra and Its Applications, doi: 10.1142/S021949882650088X (published online in 2024).

11:40-12:20

Liouville meets Erdos

Taboka Prince Chalebgwa

University of Pretoria, South Africa

A result of Erdos from the 1960s says that every real number can be decomposed into a sum (and a product) of two Liouville numbers. This is particularly surprising (from a "metrical" perspective) since the set of Liouville numbers has (Lebesgue) measure zero. Erdos asked if "in a certain sense" the Liouville numbers are the smallest set with this property. In joint work with Sid Morris, we addressed this problem. Along the way, we also "extend" the classical result, to show that, every positive real number (except the number 1) can be expressed as a "power tower" of two Liouville numbers.

14:00-14:40

Axiomatic Summation and Limiting methods

Liam Baker

Stellenbosch University, South Africa

The conventional method of summing an infinite series of numbers (by taking the limit of the sequence of partial sums) is, in some ways, deficient. For many years, scientists have encountered situations where an infinite series which is not summable using the conventional method nevertheless seems to be associated with a specific finite value; this occurs in the practices of renormalisation and regularisation in physics, as well as in the various alternative summations methods in mathematics, such as Abel summation, Cesàro summation, Borel summation, et cetera. Most of the study of these summation methods have been on explicit methods and the relationships between them. In this talk, we propose a study of the properties of these summation methods from an axiomatic perspective, in particular in which series can have at most one summation value given a list of axioms.

14:40-15:20

Derived non-Archimedean analytic geometry

Federico Bambozzi

Universita degli Studi di Padova, Italy

I will explain some recent progress in the development of a theory of derived geometry for non-Archimedean analytic spaces. This theory is based on a study of the homological and homotopical properties of Banach rings and modules and the resulting theory is compatible with the classical constructions of rigid and adic geometry. If time permits some applications will be described.

15:50-16:30

The quadratic Manin-Peyre conjecture for del Pezzo surfaces

Kevin Destagnol

Paris-Saclay University, Orsay, France

I will present a general framework to study the distribution of rational points of bounded height on $\operatorname{Sym}^2 X := (X \times X)/\mathfrak{S}_2$ with X a del Pezzo surface (where the action of the symmetric group is just by permuting the two copies of X) and explain how this framework can be used to provide asymptotics in the case of the infinite family of non-split quadric surfaces given by $x^2 - dy^2 = zw \subseteq \mathbb{P}^3_{\mathbb{Q}}$. This is joint work with F. Balestrieri, J. Lyczak, J. Park and N. Rome.

Wednesday, 22 of January 2025

9:30-10:30

Coefficients of modular polynomials

Florian Breuer

University of Newcastle, Australia

For every positive integer N, the modular polynomial $\Phi_N(X,Y)$ has integer coefficients and vanishes precisely at pairs of j-invariants of elliptic curves linked by a cyclic isogeny of order N. These polynomials have applications in cryptography and define integral (but singular) models for the modular curves $X_0(N)$. Their coefficients grow rapidly with N. In this talk, I will explain recent joint work with Fabien Pazuki and Desirée Gijón Gómez obtaining explicit upper and lower bounds on the size of these coefficients. Our methods also lead to explicit bounds on the heights of Hecke images. If time allows, I can also outline analogous results for Drinfeld modular polynomials.

11:00-12:00

A parallelogram inequality for abelian varieties over function fields

Richard Griffon

Universite Clermont Auvergne, France

Given an abelian variety A over a number field, and two finite subgroups G,H of A, Rémond has recently proved an inequality relating the Faltings heights of the quotients of A by $G,H,G\cap H$, and G+H. I will talk about a very recent work — joint with Samuel Le Fourn and Fabien Pazuki — in which we prove a perfect analogue of Rémond's inequality in the context of abelian varieties over function fields, where the role of Faltings height is played by the differential height. I will sketch our proof which, among other tools, requires controlling the variation of the differential height through isogenies of various types. Time permitting, I will discuss an application of this inequality to a bound on the height of abelian subvarieties of a given abelian variety over a function field.

12:00-12:40

The Asymptotic Analysis of Norms in Integer Partitions

Dennis Kinoti Gikunda

Stellenbosch University, South Africa

A partition of a positive integer n is a way of expressing n as a sum of positive integers. In this work, we will focus on a specific parameter of partitions known as the "norm", which is defined as the product of the parts in the partition. We show that the logarithm of the norm of a random partition of n has a continuous limiting distribution when n is sufficiently large. We generalise this result to the case of Λ -partitions where Λ is a sequence of positive integers satisfying certain conditions (referred to as the Meinardus scheme). Important examples include square partitions, prime partitions, and Mahler partitions.

Our method is based on analytic techniques such as the saddle-point method and the Mellin transform method. We will conclude by discussing potential future research directions. This work is joint with Dimbinaina Ralaivaosaona.

Thursday, 23 of January 2025

9:30-10:30

On the distribution of sequences of the form $(q_n y)$

Simon Kristensen

Aarhus University, Denmark

The distibution is of sequences of the form (q_ny) with (q_n) a sequence of integers and y a real number has attracted quite a bit of attention, for instance due to the relation to inhomogeneous Littlewood type problems. In this talk, we will provide some results on the Lebesgue measure and Hausdorff dimension of the set of points in the unit interval approximated to a certain rate by points from such a sequence. A feature of our approace is that we obtain estimates even in the case when the sequence (q_n) grows rather slowly. Nonetheless, our results leave intriguing open problems for further study. This is in part joint work with Tomas Persson.

11:00-11:40

Families of Varieties

Bruno Chiarellotto

Universita degli Studi di Padova, Italy

Starting with classical results about families of complex varieties and their degeneration we will deal with some arithmetic analogous. We will present some recent results on degeneration of curves and surfaces.

11:40-12:20

Alignments in Ulam's Spiral

Stephane Vinatier

University of Limoges, France

In joint work with Sophie Marques, we investigate which polynomials with integer coefficients yield alignments when representing their values at integers in Ulam's spiral. This well-known figure, in which alignments of prime numbers are produced by certain degree 2 polynomials with many prime values at integers, such as Euler's formula, can be seen as a parametrization of \mathbb{Z}^2 by positive integers. We make this parametrization explicit. We also explain the spirals drawn by the values of certain polynomials inside Ulam's spiral, study symmetry properties, and display surprising figures produced by polynomials with non-aligned values.

14:00-14:40

The multiplicative structure of the set of integers modulo a power of a prime.

Joseph Atalaye

Stellenbosch University, South Africa

Computing the automorphism group of integers modulo a power of a prime is a classic exercise in any introductory abstract algebra course. If we focus solely on the multiplicative structure and disregard addition, the set of integers forms what is known as a monoid. This raises a natural question: What is the structure of the automorphisms of this monoid? In this talk, we will explore how to answer this question and discuss the insights gained from this analysis. Joint work with Liam Baker and Sophie Marques.

14:40-15:20

Some properties of overpartitions into nonmultiples of two integers.

Abdulaziz Mohammed Alanazi

Tabuk University, Saudi Arabia

We consider properties of overpartitions that are simultaneously ℓ -regular and μ -regular, where ℓ and μ are positive relatively prime integers. We prove a seven-way combinatorial identity related to these overpartitions. We also prove several congruence properties satisfied by this class of partitions (and a further related class) using both generating functions and modular forms with Radu's Algorithm.

15:40-16:20

Factorials which are ratios of products of Fibonacci numbers

Florian Luca

Stellenbosch University, South Africa

In my talk, I will look at the factorials which are ratios of products of Fibonacci numbers. I will show that the largest such is

$$36! = F_4 F_5^6 F_6 F_7 F_8^4 F_9 F_{10}^2 F_{12}^5 F_{14} F_{15}^{-1} F_{18} F_{24} F_{30}.$$

The proof uses ingredients from the structure of *Fibonaci integers* a concept studied in a **2011** *J. Number Theory* paper of the speaker with Carl Pomerance and Stephan Wagner, which are integers which belong to the multiplicative group generated by the Fibonacci numbers.

Friday, 24 of January 2025

9:30-10:30

Refining Overlined Parts in Overpartitions via Residue Classes

Augustine Munagi

University of the Witswatersrand, South Africa

Over the past several years, numerous authors have studied properties of the combinatorial objects known as overpartitions

(which are natural generalizations of integer partitions). In this talk, we consider various classes of overpartitions where the

"overlined parts" belong to certain residue classes modulo a positive integer m. We state new identities between such restricted overpartitions

and standard partition functions. Finally, we prove a number of Ramanujan-like congruences for the restricted overpartitions using generating function manipulations.

This is joint work with James Sellers.

10:30-11:10

Wieferich primes and Drinfeld modules

Alexis Lucas

Universite de Caen Normandie, France

Let ϕ be a Drinfeld module and $\mathfrak p$ a monic irreducible polynomial of $\mathbb F_q[\theta]$. On the one hand we introduce the $\mathfrak p$ -adic L-series associated to ϕ and on the other we introduce the poropety for $\mathfrak p$ to be Wieferich in basis ϕ . We establish a strong connexion between these two notions with the help of the Taelman's class formula. We will completely investigate what we call the « small » case, including in particular the Carlitz module and extending the work of Thakur. This is a joint work with Xavier Caruso and Quentin Gazda.

11:30-12:10

The exponential local-global principle and power residue symbols

Henry (Maya) Thackeray

University of Pretoria, South Africa

The exponential local-global principle, also known as the Skolem conjecture, is the following statement (Bilu et al. 2022):

Let s be a positive integer. Assume that some sequence

$$t = (\dots, t(-2), t(-1), t(0), t(1), t(2), \dots)$$

of numbers in $\mathbb{Z}[1/s]$ satisfies a linear recurrence

$$t(n) = a(1)t(n-1) + a(2)t(n-2) + \dots + a(d)t(n-d)$$

such that all roots of $x^d + a(1)x^{d-1} + a(2)x^{d-2} + \cdots + a(d-1)x + a(d)$ are simple and nonzero. Assume that for every positive integer m that is relatively prime to s, some t(k) is m times a number in $\mathbb{Z}[1/s]$. It follows that some t(k) is zero.

The conjecture has been proved in some cases, but is open in general. This talk presents a proof of some cases of the exponential local-global principle (with order d at most 3) using power residue symbols.

References

Bilu, Y., et al. 2022. Skolem meets Schanuel, 47th International Symposium on Mathematical Foundations of Computer Science, article number 62, pp. 62:1-62:15.

12:10-12:50

Partitions with parity restrictions on parts

Darlison Nyirenda

University of the Witswatersrand, South Africa

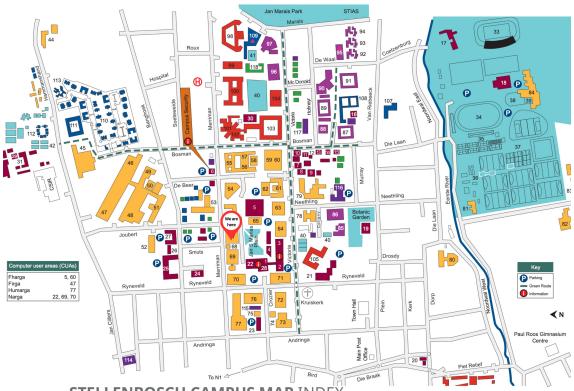
J. Sellers and F. Zanello proved some congruence results for the number of partitions of n wherein parts have odd multiplicities. Motivated by their work, we study various partition functions associated with partitions with parity restrictions on parts. In this talk, we present some observations in this direction.

Abdulaziz Mohammed Alanazi	Tabuk University, Saudi Arabia
Joseph Atalaye	Stellenbosch University, South Africa
Liam Baker	Stellenbosch University, South Africa
Bruce Bartlett	Stellenbosch University, South Africa
Federico Bambozzi	Universita degli Studi di Padova, Italy
Attila Berczes	University of Debreceni, Hungary
Gareth Boxall	Stellenbosch University, South Africa
Florian Breuer	University of Newcastle, Australia
Tim Browning	IST Austria
Taboka Prince Chalebgwa	University of Pretoria
Bruno Chiarellotto	Universita degli Studi di Padova, Italy
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Marion le Gonidec	University of Reunion Island, Reunion Is-
	land
Dennis Kinoti Gikunda	Stellenbosch University, South Africa
Richard Griffon	Universite Clermont Auvergne, France
Lajos Hajdu	University of Debreceni, Hungary
Simon Kristensen	Aarhus University, Denmark
Alexis Lucas	Universite de Caen Normandie, France

List of Participants (continued)

Augustine Munagi	University of the Witswatersrand, South Africa			
Darlison Nyirenda	University of the Witswatersrand, South Africa			
Fabian Palmer	University of KwaZulu-Natal, South Africa			
Istvan Pink	University of Debreceni, Hungary			
Kerry Porrill	Stellenbosch University, South Africa			
Laszlo Szalay	University of Sopron, Hungary			
Maya Thackeray	University of Pretoria, South Africa			
Matteo Verzobio	IST Austria			
Stephane Vinatier	University of Limoges, France			

STELLENBOSCH CAMPUS MAP



STELLENBOSC	H CAMPUS MA	P INDEX	
SUPPORT SERVICES 1 Administration, Block A	49 Process Engineering 50 Knowledge Centre 51 Engineering, General	100 Simonsberg 101 Huis Visser 102 Huis Marais	ECONOMIC AND MANAGEMENT SCIENCES $52,58-60,67$
2 Administration, Block B 3 Administration, Block C	52 Africa Centre for HIV and AIDS Management	103 Dagbreek 104 Majuba	EDUCATION 76,84
4 JS Gericke Library 5 Neelsie Student Centre	53 JC Smuts – Biological Sciences 54 De Beers – Chemistry 55 Mike de Vries	105 Wilgenhof 106 Helderberg	ENGINEERING 47-51
6 Campus Security 7 Centre for Student Recruitment 8 Centre for Student Counselling and Development Reception (Sapecial Learning Needs (Otabalities): Den Bosch 1 CSCD: Unit for Psychotherapenic and Support Services 1 Centre for Teaching and Learning 124d Devision for Student Affairs 1 Language Enrichment (Courses	56 Chemistry – first-years 77 Inorganic Chemistry 58 CGW Schumann 59 Acg W Schumann 50 Accounting and Statistics 61 J S Marris 62 Polymer Science 62 Polymer Science 64 H Neething 65 Al Perold 66 Merensky	MEN'S AND WOMEN'S RESIDENCES 107 Huis Necthing 108 Metanoia 109 Rossel Botman House; a Wimbledon hub 110 Academia 111 Connected to the Connect	English
16 Campus Health Services 17 Maties Sport 18 Coetzenburg Centre	67 Mathematical Sciences and Industrial Psychology 68 Nursery 69 Natural Sciences	114 Lobelia 115 Crozierhof 116 Huis de Villiers	Institute for Plantbiotechnology 69 Journalism 75
19 Old Conservatoire 20 SU Art Galery 21 University Museum 22 Centre for Learning Technology 23 Language Centre (Writing Lah) 24 WAT, 115 Bunghoek Road 25 Matte Community Services, Luckhoff School 26 This Language Centre (Writing Lah) 27 Legal Aid Clinic 28 IT Hub (Help Centre) 30 Purchasing and Provision Services 31 Facilities Management 32 Information Technology SPORTS FACILITIES	10 Chamber of Mines 12 RW Wilcocks 12 Old Main Bullding 13 HB Thom Theatre 14 CL Marias Library 15 Journalism 16 Than Stein Sciences 17 Arts and Social Sciences 18 Lombard 19 Konservatorium (University Choir) 19 Rosservatorium (University Choir) 10 Theological Seminary 11 Paul van der Bijl Laboratories 2 Agronomy 13 Welgevalten Experimental Farm 14 Sport Science	117 Waldenhof	LAW 72 Mathematics (Math. Sc.) 67 Microbiology 37 Modern Foreign Languages 77 Modern Mathematics 77 Physico 77 Physico 66 Phata Pathology 78 Physicological Sciences 65 Plant Pathology 78 Physicological Sciences 77 Psychology 79 SCIENCE 1,53-57, \$9,62,65,66,67,70
33 Danic Craven Stadium 34 Coetzenburg Athetics Stadium 35 Coetzenburg Tenis Courts 37 Schall Courts 38 Surfament Hockey Fields 39 St Gymnasium 40 Tennis Courts (Residences) 40 GM Mutual Sports Centre (equash courts) 41 Fields Method Forger Fields 42 Tennis Courts 43 Fields Method Forger Fields 44 Food Science 45 PO Sauer 45 Electrical Pleatment 47 Civil Engineering 48 Mechanical Mechanonic Industrial Engineering 48 Mechanical Mechanonic Industrial Engineering 48 Mechanical Mechanonic Industrial Engineering	WOMEN'S RESIDENCES 85 Monica 86 Harmonie 87 Heemstede 88 Hisis ten Bosch 89 Lydia 90 Minerva 92 Minerva 92 Frica 93 Nemesia 94 Serruria 95 Time Low Dning Hall: a anaMaties hub 96 Sonop (Huis van Nickerk) 97 Icree MEN'S RESIDENCES 88 Eendrag 99 Helshooge	AGRISCIENCES 44, 45, 53, 55, 61, 64, 78, 81-83 Agronomy Acacient Studies Agriculary ARTS AND SOLAL SCIENCES APPlied Mathematics ARTS AND SOLAL SCIENCES Bischemistry Bischemistry Bischemistry Bischemistry Bostiness Management Solam (Math. Sci. 94, 75, 77, 79 Bostiness Management) Solam (Math. Sci. 94, 75, 76, 79 Bostiness Management) Solam (Math. Sci. 94, 75, 76, 79 Computer Science (Math. Sci. 94, 75, 76 Dama Tockensisty and Postogy and Entowy 17, 79 To Total Science (Math. Sci. 97 Total Scienc	Social Work 77 Sociology and Social Anthropology 77 Soil Science 78 South Science 84 Statistics and Actuarial Science 60 Visual Arts 63 Viticulture and Octology 64 Parking

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