Tues 28th July — Wed 5th Aug, 1981.

LONDON MATHEMATICAL SOCIETY

DURHAM SYMPOSIUM ON OPERATOR ALGEBRAS

Programme

Lectures will be held, at times indicated on the attached timetable, in Room M1 on the ground floor of the Mathematics Department.

Splinter groups, consisting of a number of talks of about twenty minutes duration, will be held during the period 14.15-16.00 on the afternoons of 28, 29, 30, 31 July. Details of the splinter group programmes will be posted on notice boards; subject to demand, additional splinter groups may be organised on the afternoons of 3, 4, 5 August.

Those wishing to offer splinter group talks are requested to contact the appropriate organiser. The topics listed below are intended only as a very general indication of the subject area covered by each splinter group; talks which do not fall neatly into one or other of the listed topics are none the less welcome.

Tuesday, 28 July

Organiser: E C Lance

Topic   :   *Nuclear algebras, injectives, K-theory*

Wednesday, 29 July

Organiser: G K Pedersen

Topic   :   *Derivations, automorphisms, related matters*

Thursday, 30 July

Organiser: R G Douglas

Topic   :   *Single operator theory*

Friday, 31 July

Organiser: R F Streater

Topic   :   *Applications of operator algebras in physics*

Saturday, 1 August

09.20-10.20 : G W Mackey   : *"Harmonic analysis and number theory"*

10.50-11.30 : J H Williamson : *"Some aspects of $M_o(G)$"*

11.40-12.20 : S C Power   : *"The character space of $C^*(A,B)$ and applications"*

Monday, 3 August

09.20-10.20 : R V Kadison   : *"Operator algebras: problems"*   I

10.50-11.30 : C A Akemann   : *"The Stone-Weienstan problem and related theorems"*

11.40-12.20 : E Alfsen   : *"On the concept of orientation and orientability of state spaces"*

17.00-18.00 : R V Kadison   : *"Operator algebras: problems"*   II

Tuesday, 4 August

09.20-10.20 : E Størmer   : *"Idempotent positive maps of operator Algebras"*

10.50-11.30 : O Bratteli   : *"Unbounded derivations commuting with compact actions"*

11.40-12.20 : M Rieffel   : *"Stable rank in the K-theory of C^*-algebras"*

Wednesday, 5 August

09.20-10.20 : E G Effros   : *"Rational functional analysis and the subshift problem"*

10.50-11.30 : R J Archbold   : *"Slice maps on tensor products of C^*-algebras"*

11.40-12.20 : J L Taylor   : *"Automorphisms of certain C^*-algebras and torsion in 2nd Cech cohomology"*

17.00-18.00 : U Haagerup   : *"All nuclear C^*-algebras are amenable"*

Tuesday, 28 July

09.20-10.20	:	M Takesaki	– *"A new look at classification theory for non-classifiable objects"* I
10.50-11.30	:	A van Daele	– *"Dense subalgebras of left Hilbert algebras"*
11.40-12.20	:	E C Lance	– *"Asymptotic embeddings of C*-algebras"*
17.00-18.00	:	M Takesaki	– *"A new look at classification theory for non-classifiable objects"* II

Wednesday, 29 July

09.20-10.20	:	H Araki	– *"Operator algebras in physics"* I
10.50-11.30	:	R F Streater	– *"Group actions on the CAR"*
11.40-12.20	:	R T Powers	– *"States of certain group invariant AF algebras"*
17.00-18.00	:	H Araki	– *"Operator algebras in physics"* II

Thursday, 30 July

09.20-10.20	:	S Sakai	– *"Unbounded derivations in C*-algebras and related topics"* I
10.50-11.30	:	G K Pedersen	– *"Recent results on automorphisms of C*-algebras"*
11.40-12.20	:	A Hopenwasser	– *"Tensor products of reflexive operator algebras"*
17.00-18.00	:	S Sakai	– *"Unbounded derivations in C*-algebras and related topics"* II

Friday, 31 July

09.20-10.20	:	W B Arveson	– *"Spectral theory of reflexive operator algebras"*
10.50-11.30	:	J Cuntz	– ~~To be announced~~ " The topology of partial isometries "
11.40-12.20	:	R G Douglas	– *"Index theory and K-homology"*
17.00-18.00	:	W B Arveson	– ~~*"Probabilistic automorphisms of the n-particle space"*~~ Dilations of the canonical commutation relations