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| $B(X)$                                 | algebra of bounded functions on $X$ , 152                          |
| $C_b$                                  | bounded convex, 333  |
| $ERE$                                  | reduced von Neumann algebra, 336                                   |
| $E \otimes E$                          | reduced von Neumann algebra, 335                                   |
| $F_n$                                  | $(A_n)_{n \in \mathbb{N}}$ , 276                                   |
| $F(X)$                                 | $(A_n)_{n \in \mathbb{N}}$ , $x \in X$ , 276                       |
| $F(X)^*$                               | commutative, 325   |
| $F(X)^*$                               | double commutant, 326  |
| $F(X)$                                 | $(A_n)_{n \in \mathbb{N}}$ , 326                                   |
| $H(X)$                                 | set of holomorphic functions, 266                                  |
| $I$                                    | unit element, locally operator, 41                                 |
| $\cong$                                | isomorphism between algebras, 310                                  |
| $\ker$                                 | left kernel of the state $\rho$ , 271                              |
| $L_f$                                  | operator, on $L_2$ , of covariation by $f$ , 190                   |
| $\mathcal{M}^+$                        | positive cone in $\mathcal{M}$ , 255                               |
| $\mathcal{M}_s$                        | set of self-adjoint elements of $\mathcal{M}$ , 255                |
| $\mathcal{M}(R)$                       | set of multiplicative linear functionals on $\mathcal{M}(R)$ , 197 |
| $\mathcal{M}(R)$                       | $\mathcal{M}(R)(\mathcal{M}_s)$ , 195                              |
| $\mathcal{M}(A)$                       | algebra of operators affiliated with $\mathcal{M}$ , 303           |
| $\mathcal{M}(A)$                       | algebra of normal functions on $A$ , 346                           |
| $\mathcal{M}(A)$                       | set of pure states of $\mathcal{M}$ , 261                          |
| $\mathcal{M}(A)^*$                     | pure state space of $\mathcal{M}$ , 261                            |
| $(\alpha, \mathcal{K}_\alpha, \omega)$ | GNS constructs, 278  |
| $\mathcal{R}$                          | dual group of $\mathcal{R}$ , 152                                  |
| $r(A)$                                 | spectral radius, 180   |
| $r(A)$                                 | spectral radius, 180   |
| $\mathcal{R}^*$                        | restricted von Neumann algebra, 334                                |
| $\mathcal{R}^*$                        | restricted von Neumann algebra, 336                                |
| $\mathcal{R}(A)$                       | spectrum of $A$ , 148, 151   |