

























- <sup>41</sup>U. Harbola, M. Esposito, and S. Mukamel, *Phys. Rev. B* **74**, 235309 (2006).
- <sup>42</sup>P. Zedler, G. Schaller, G. Kiesslich, C. Emary, and T. Brandes, *Phys. Rev. B* **80**, 045309 (2009).
- <sup>43</sup>X.-Q. Li, J. Luo, Y.-G. Yang, P. Cui, and Y. Yan, *Phys. Rev. B* **71**, 205304 (2005).
- <sup>44</sup>J. N. Pedersen and A. Wacker, *Phys. Rev. B* **72**, 195330 (2005).
- <sup>45</sup>I. V. Ovchinnikov and D. Neuhauser, *J. Chem. Phys.* **122**, 024707 (2005).
- <sup>46</sup>J. E. Subotnik, T. Hansen, M. A. Ratner, and A. Nitzan, *J. Chem. Phys.* **130**, 144105 (2009).
- <sup>47</sup>A. E. Rothman and D. A. Mazziotti, *J. Chem. Phys.* **132**, 104112 (2010).
- <sup>48</sup>G. Lindblad, *Commun. Math. Phys.* **48**, 119 (1976).
- <sup>49</sup>D. S. Kosov, *J. Chem. Phys.* **131**, (2009).
- <sup>50</sup>M. Schmutz, *Z. Phys. B* **30**, 97 (1978).
- <sup>51</sup>U. Harbola and S. Mukamel, *Phys. Rep.* **465**, 191 (2008).
- <sup>52</sup>T. Prosen, *New J. Phys.* **10**, 043026 (2008).
- <sup>53</sup>T. Prosen and B. Zunkovic, *New J. Phys.* **12**, 025016 (2010).
- <sup>54</sup>H. Matsumoto, Y. Nakano, and H. Umezawa, *Phys. Rev. D* **31**, 429 (1985).
- <sup>55</sup>H. Umezawa, *Advanced Field Theory: Micro, Macro, and Thermal Physics* (AIP, New York, 1993).
- <sup>56</sup>H. P. Breuer and F. Petruccione, *The Theory of Open Quantum Systems* (Oxford University Press, Oxford, 2002).
- <sup>57</sup>A. Kobryn, T. Hayashi, and T. Arimitsu, *Ann. Phys. (N.Y.)* **308**, 395 (2003).
- <sup>58</sup>N. N. Bogoliubov, *Usp. Fiz. Nauk.* **67**, 549 (1959); *Sov. Phys. Usp.* **67**, 236 (1959).
- <sup>59</sup>L. D. Landau, *Zh. Eksp. Teor. Fiz.* **30**, 1058 (1956); *Sov. Phys. JETP* **3**, 920 (1957).
- <sup>60</sup>N. N. Bogoliubov, *Zh. Eksp. Teor. Fiz.* **34**, 58 (1958); *Sov. Phys. JETP* **7**, 41 (1958).
- <sup>61</sup>N. N. Bogoliubov and D. V. Shirkov, *Introduction to the Theory of Quantized Fields* (John Wiley & Sons, NY, 1980).
- <sup>62</sup>Y. Meir and N. S. Wingreen, *Phys. Rev. Lett.* **68**, 2512 (1992).
- <sup>63</sup>S. Datta, *Electronic Transport in Mesoscopic Systems* (Cambridge University Press, 1997).