

**Table 8***Relation name matrix for Roman emperors*


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(-630--610, 250-260), 50-55. (-610--550, 420-450), 55-60. (-510--500, 240-250), 50-55. (-520--500, 540-560), 55-60. (-80--50, 540-560), 55-60. (-50--40, 260-270), 40-45. (-30+10, 330-340), 40-45. (0-0, 1300-1300), 50-55. (60-80, 190-210), 50-55. (60-80, 260-280), 50-55. (80-100, 360-370), 55-60. (90-100, 390-400), 60-65. (60-80, 990-1010), 50-55. (20-60, 1060-1080), 50-55. (160-170, 390-410), 50-55. (200-210, 470-480), 60-65. (200-210, 1250-1260), 50-55. (240-260, 1170-1180), 65-70. (240-260, 1210-1220), 65-70. (260-270, 550-560), 50-55. (320-330, 550-560), 45-50. (340-360, 490-510), 60-65. (410-450, 550-560), 60-65. (470-520, 980-1000), 50-55. (470-530, 1200-1210), 50-55. (550-560, 910-920), 50-55. (700-890, 880-890), 50-70. (850-920, 920-940), 55-60. (840-890, 1040-1190), 55-60. (800-920, 1390-1410), 65-70. (830-890, 1500-1520), 55-60. (830-890, 1590-1600), 50-65. (920-1260, 920-1260), 55-60. (1000-1020, 1320-1310), 55-60. (1000-1220, 1330-1340), 60-65. (1090-1250, 1500-1510), 60-65. (1130-1300, 1540-1560), 65-70. (1140-1210, 1630-1630), 55-60. (1230-1310, 1620-1620), 55-60. (1300-1700, 1300-1700), 40-60.

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**Table 9***Relation name matrix for Byzantine emperors*


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(330-370, 670-680), 21-40. (330-370, 940-1080), 45-49. (580-650, 1070-1350), 21-40. (650-700, 980-980), 21-40. (770-980, 980-980), 40-45. (830-1453, 830-1453), 80-200. (780-940, 780-940), 40-45. (470-770, 470-770), 70-80.

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**Table 10***Relation name matrix for Armenian catholicoses*


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(50-480, 50-480), 40-59. (100-150, 700-750), 20-29. (50-150, 850-900), 20-29. (100-320, 1120-1180), 20-29. (330-350, 1470-1490), 50-59. (320-350, 1560-1580), 30-39. (330-350, 1810-1840), 40-49. (490-530, 730-760), 60-69. (530-560, 660-670), 70-79. (600-630, 1730-1750), 50-59. (900-900, 1510-1510), 60-69. (940-940, 1500-1500), 50-59. (970-980, 1500-1510), 50-59. (1000-1000, 1500-1500), 30-39. (1000-1000, 1520-1520), 20-29. (1040-1090, 1480-1600), 30-39. (1090-1120, 1550-1600), 50-59. (1190-1210, 1550-1560), 30-39. (1210-1280, 1490-1550), 30-39. (1090-1210, 1090-1210), 50-59. (1210-1220, 1550-1600), 70-79. (1330-1420, 1330-1420), 50-59. (1400-1420, 1720-1720), 40-49. (1410-1420, 1760-1790), 40-49. (1460-1610, 1460-1610), 40-49. (1650-1710, 1750-1790), 50-59.

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The relation matrix for Byzantine emperors is shown in Table 9: the relation is  $L_2$ ,  $k = 4$ ,  $c = 25$ , the mean value of the relation  $L_2$  equals 29.2. We use years A.D.

The relation name matrix for Armenian catholicoses is shown in Table 10: the relation is  $L_2$ ,  $k = 4$ ,  $c = 25$ , the mean value of the relation  $L_2$  equals 24.2. We use years A.D.

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